

HW-D7000

Blu-ray™
AV Receiver System
user manual

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SAMSUNG

Safety Information

Safety Warnings

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER(OR BACK). NO USER-SERVICEABLE PARTS ARE INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

	<div style="border: 1px solid black; padding: 2px; background-color: #333; color: white; font-weight: bold; font-size: small;"> CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN </div>	
The lightning flash and Arrowhead within Triangle is awarning sign alerting you of dangerous voltage Inside the product.	CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.	The explanation point within the triangle is a warning sign alerting you of important instructions accompanying the product.

WARNING

- To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT
PRODUCTO LÁSER CLASE 1

CLASS 1 LASER PRODUCT

- This product is classified as a CLASS 1 LASER product. Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- Complies with 21CFR 1040.10 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.

CAUTION

- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- The Mains plug is used as a disconnect device and shall stay readily operable at any time.

DANGER

VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM. (FDA 21 CFR)

CAUTION

- CLASS 3B VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO THE BEAM (IEC 60825-1)
- THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVER AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances, such as radios and televisions, use shielded cables and connectors for connections.

FCC NOTE (for U.S.A)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION : FCC regulations state that any unauthorized changes or modifications to this equipment may void the user's authority to operate it.

Important Safety Instructions

Read these operating instructions carefully before using the unit. Follow all the safety instructions listed below. Keep these operating instructions handy for future reference.

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachment/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



Safety Information

Precautions

- Ensure that the AC power supply in your house complies with specifications listed on the identification sticker located on the back of your product.
- Install your product horizontally, on a suitable base (furniture), with enough space around it for ventilation (7.5~10cm / 20~25 inches).
- Do not place the product on amplifiers or other equipment which may become hot. Make sure the ventilation slots are not covered.
- Do not stack anything on top of the product.
- Before moving the product, ensure the Disc Insert Hole is empty.
- To disconnect the product completely from the power supply, remove its plug from the wall outlet.
 - If you leave the product unused for a long period of time, disconnect the plug from the wall outlet.
- During thunderstorms, disconnect the AC plug from the wall outlet. Voltage spikes caused by lightning could damage the product.
- Do not expose the product to direct sunlight or other heat sources. This could cause the product to overheat and malfunction.
- Protect the product from moisture, excess heat, and equipment creating strong magnetic or electric fields (i.e. speakers.).
- Disconnect the power cable from the AC supply if the product malfunctions.
- Your product is not intended for industrial use. It is for personal use only.
- Condensation may occur if you store your product or a disc in cold temperatures. If transporting the product during the winter, wait approximately 2 hours until the product has reached room temperature before using.
- The batteries used with this product contain chemicals that are harmful to the environment.
 - Do not dispose of batteries in the general household trash.

Viewing TV using the 3D function

IMPORTANT HEALTH AND SAFETY INFORMATION FOR 3D PICTURES. Read and understand the following safety information before using the TV's 3D function.

WARNING

- Some viewers may experience discomfort while viewing 3D TV such as dizziness, nausea and headaches. If you experience any such symptom, stop viewing 3D TV, remove the 3D Active Glasses, and rest.
- Watching 3D images for an extended period of time may cause eye strain. If you feel eye strain, stop viewing 3D TV, remove your 3D Active Glasses, and rest.
- A responsible adult should frequently check on children who are using the 3D function. If there are any reports of tired eyes, headaches, dizziness, or nausea, have the child stop viewing 3D TV and rest.
- Do not use the 3D Active Glasses for other purposes (such as general eyeglasses, sunglasses, protective goggles, etc.)
- Do not use the 3D function or 3D Active Glasses while walking or moving around. Using the 3D function or 3D Active Glasses while moving around may result in injuries caused by running into objects, tripping, and/or falling.

Cautions on Handling and Storing Discs

Small scratches on the disc may reduce sound and picture quality or cause skipping.

Be especially careful not to scratch discs when handling them.

Holding discs

- Do not touch the playback side of the disc.
- Hold the disc by the edges so that fingerprints will not get on the surface.
- Do not stick paper or tape on the disc.



Disc Storage

- Do not keep in direct sunlight
- Keep in a cool ventilated area
- Keep in a clean protection jacket and store vertically.

NOTE

- Do not allow the discs to become contaminated with dirt.
- Do not load cracked or scratched discs.

Handling and Storing Discs

If you get fingerprints or dirt on the disc, clean it with a mild detergent diluted in water and wipe with a soft cloth.

- When cleaning, wipe gently from the inside to the outside of the disc

NOTE

- Condensation may form if warm air comes into contact with cold parts inside the product. When condensation forms inside the product, it may not operate correctly. If this occurs, remove the disc and let the product stand for 1 or 2 hours with the power on.

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Getting Started

Key features of your new Blu-ray Receiver

Product Features

Digital Receiver

This product is a pure digital receiver that performs digital signal processing to minimize signal distortion and loss.

3D

This product can play 3D contents through an HDMI cable.

To implement the 3D effect, connect a 3D TV to the product using an HDMI cable, and play the 3D content while wearing 3D vision glasses.

Smart Hub

You can download various for pay or free-of charge applications through a network connection. These applications provide a range of Internet services and content including news, weather forecasts, stock market quotes, games, movies, and music.

AllShare

You can play videos, music and photos saved on your devices (such as your PC, mobile phones or NAS) through the home theater via a network connection.

Audio Sync function

If you have connected the product to a digital TV, video can sometimes lag behind the audio. To compensate for this, you can adjust the audio delay time so that the audio syncs with the video.

iPod SYNC function

If the video signal from an iPod player you attached to the product lags behind the audio signal during playback, you can set the audio delay time so that the video and audio match.

iPod & iPhone support

If you have connected an iPod player to the home theater using the iPod/iPhone specific USB cable, you can play the music files in the iPod/iPhone through the connected speakers.

BD Wise

BD Wise automatically adjusts BD Wise-compliant Samsung products to their optimal settings. This feature is enabled only if BD Wise-compliant Samsung products are connected to each other using an HDMI cable.

3D SOUND

You can enjoy more natural and vivid surround sound with enriched tones.

ARC (Audio Return Channel)

You can enjoy TV sound from the Home Theater speakers by using just one HDMI cable.

DOLBY DIGITAL EX

Adds a surround back channel for more spacious sound compared to regular 5.1 channel Dolby Digital.

Dolby Pro Logic IIx

Dolby Pro Logic IIx is a new technology that provides discrete 7.1 channels out of 2 channel or multi channel sources. It also provides Music, Movie and Game modes.

Dolby Pro Logic IIx is an improved surround system that is optimized to a 7.1 CH multimedia system, enabling you to maximize your entertainment experience.

Dolby Pro Logic IIz

Dolby Pro Logic IIz adds front height channels to surround sound, creating a 7.1 playback system for video games, home music, and movies; bringing enhanced spatial effects and enveloping sound.

Dolby Digital Plus

Dolby Digital Plus is the next-generation audio technology for all high-definition programming and media.

Dolby True-HD

Dolby True-HD is Dolby's next-generation lossless technology developed for high-definition disc-based media.

DTS (Digital Theater Systems)

DTS provides a discrete 5.1 CH digital audio signal for both music and movie contents and uses less compression than Dolby Digital for richer sound.

DTS Neo 6

Provides a full range of 6 channels by converting a digital PCM or analog stereo signal using DTS digital matrix decoding.

DTS 96/24

DTS 96/24 encodes standard 16 bit/44.1 kHz sound to 24 bit/96kHz and applies it to a 5.1 CH sound track.

DTS-ES (Extended Surround) Direct 6.1

The DTS-ES (Extended Surround) system is a new multi digital signal format that was developed by Digital Theater Systems Inc.

Supporting full compatibility with the conventional DTS digital surround sound format, the DTS-ES (Extended Surround) system improves the surround signal for a 360-degree surround effect.

DTS-ES adds an additional rear center surround channel for 6.1 channel sound.

DTS-HD MA (Digital Theater Systems - Master Audio, High Resolution)

DTS-HD Audio provides the highest quality multi-channel sound possible.

It delivers sound quality that matches the clear and vivid images of high-definition video.

SFE (Sound Field Effect) Using 32bit Audio Digital Signal Processing

Provides more realistic surround sound with normal stereo audio sources.






















 NOTE

- Write as "VFD" when it is BD/DVD mode :
 - DTS ES Discrete : Write as "DTS ES"
 - DTS ES Matrix, normal DTS : Write as "DTS"

Getting Started

Icons that will be used in manual

Make sure you understand the following terms before reading the rest of the user manual.

Term	Logo	Icon	Definition
BD-ROM			Indicates a function available on a BD-ROM.
BD-RE/-R			Indicates a function available on a BD-RE/-R disc recorded in the BD-RE format.
DVD-VIDEO			Indicates a function available on a DVD-VIDEO.
DVD-RW(V)			Indicates a function available on recorded DVD+RW or DVD-RW(V)/DVD-R/+R discs that have been recorded and finalized.
DVD-R			
DVD+RW			
DVD+R			
			
Audio CD			Indicates a function available on an audio CD-RW/-R (CD-DA format).
MP3 WMA	-		Indicates a function available in a CD-RW/-R, DVD-RW/-R disc or a USB storage media containing MP3 or WMA contents.
JPEG	-		Indicates a function available in a CD-RW/-R, DVD-RW/-R disc or a USB storage media containing JPEG contents.
DivX MKV MP4	 DivX		Indicates a function available in a CD-RW/-R, DVD-RW/-R disc or a USB storage media containing DivX contents.
USB storage device	-		Indicates a function available on a USB storage device.
CAUTION	-		Indicates a situation where a function does not operate or settings may be cancelled.
NOTE	-		Indicates tips or instructions that can help you operate a function better.
Shortcut Key	-		Indicates that you can access this function quickly and easily by pressing a button on the remote control.

- This product is compatible with the NTSC color system only.
- PAL discs will not play.

Disc Types and Characteristics

Blu-ray Disc Compatibility

Blu-ray is a new and evolving format. Accordingly, disc compatibility issues are possible. Not all discs are compatible and not every disc will play back. For additional information, refer to the Disc Types and Characteristics section of this Manual.

NOTE

- Playback may not work for some types of discs or when you use specific functions such as angle change and aspect ratio adjustment. Information about the discs is written in detail on the box. Please refer to this if necessary.
- Do not allow discs to become dirty or scratched. Fingerprints, dirt, dust, scratches, or deposits of cigarette smoke on the recording surface may make it impossible to playback a disc.
- When you play a BD-Java title, loading may take longer than a normal title or some functions may perform slowly.













Discs that cannot be played

- HD DVD Disc
- DVD-RAM
- 3.9 GB DVD-R Disc for Authoring.
- DVD-RW(VR mode)
- Super Audio CD(except CD layer)
- DVD-ROM/PD/MV-Disc, etc CVD/CD-ROM/CDV/CD-G/CD-I/LD
- CDGs play audio only, not graphics.

NOTE

- Some commercial discs and DVD discs purchased outside your region may not play on this product.
- If a DVD-R/-RW disc has not been recorded properly in DVD video format, it will not play on this product.

Logos of Discs that can be played

	
Blu-ray Disc	3D Blu-ray Disc
	
Dolby Digital Plus	NTSC broadcast system in U.S.A, Canada, Korea, Japan
	
Dolby TrueHD	DTS-HD High Resolution Audio
	
Java	DTS-HD Master Audio Essential
	
BD-LIVE	DTS 96/24
	
DTS Neo 6	DTS-ES

Getting Started

Region Code

Both the product and the discs are coded by region. These regional codes must match for the product to play the disc. If the codes do not match, the disc will not play.

Disc Type	Region Code	Area
Blu-ray		North America, Central America, South America, Korea, Japan, Taiwan, Hong Kong and South East Asia.
		Europe, Greenland, French territories, Middle East, Africa, Australia and New Zealand.
		India, China, Russia, Central and South Asia.
DVD-VIDEO		The U.S., U.S. territories and Canada
		Europe, Japan, the Middle East, Egypt, South Africa, Greenland
		Taiwan, Korea, the Philippines, Indonesia, Hong Kong
		Mexico, South America, Central America, Australia, New Zealand, Pacific Islands, Caribbean
		Russia, Eastern Europe, India, most of Africa, North Korea, Mongolia
		China

Disc Types

BD-ROM

Blu-ray discs can only be played back. This product can play back pre-recorded commercial BD-ROM discs.

BD-RE/-R

Blu-ray RE/-R discs can be recorded and played back. This product can play back a BD-RE/-R disc recorded by other compatible Blu-ray disc recorders.

DVD-VIDEO

- This product can play back pre-recorded commercial DVD discs (DVD-VIDEO discs) with movies.
- When switching from the first layer to the second layer of a dual-layered DVD-VIDEO disc, there may be momentary distortion in the image and sound. This is not a malfunction of the product.

DVD-RW/-R/+R

This product can play back a DVD-RW/-R/+R disc recorded and finalized with a DVD video recorder. The ability to play back may depend on recording conditions.

DVD+RW

- This product can play back a DVD+RW disc recorded with a DVD Video recorder. The ability to play back may depend on recording conditions.

Audio CD (CD-DA)

- This product can play back CD-DA format audio CD-RW/-R discs.
- The product may not be able to play some CD-RW/-R discs due to the condition of the recording.

CD-RW/-R

- Use 700MB (80 minute) CD-RW/-R discs. Do not use 800MB (90 minute) or larger discs, as these discs may not play back.
- If the CD-RW/-R disc was not recorded as a closed session, you may experience delays when playing back the beginning of the disc or all recorded files may not play.
- Some CD-RW/-R discs may not play on this product, depending on the device which was used to burn them. For contents recorded on CD-RW/-R media from CDs for your personal use, playability may vary depending on the contents and discs.

Disc Format

Using JPEG discs

- The home theater can play back D-R/-RW, DVD-RW/-R discs recorded in the UDF or JOLIET format.
- Only JPEG files with the ".jpg", ".JPG", ".jpeg" or "JPEG" extension can be displayed.
- Progressive JPEG is supported.

DVD-RW/-R (V)

- This format is used for recording data on DVD-RW or DVD-R discs. This product can play DVD-RW or DVD-R discs if they have been finalized.
- If a disc that has been recorded in Video Mode by a different maker's recorder but has not been finalized, it cannot be played by this product.

Supported File Formats

Video File Support

File Extension	Container	Video Codec	Audio Codec	Resolution
*.avi	AVI	DivX 3.11/4.x/5.1/6.0	MP3 AC3 LPCM ADPCM DTS Core	1920x1080
		XviD		1920x1080
		H.264 BP/MP/HP		1920x1080
		MPEG4 SP/ASP		1920x1080
		Motion JPEG		1920x1080
*.mkv	MKV	DivX 3.11/4.x/5.1/6.0	MP3 AC3 LPCM ADPCM DTS Core	1920x1080
		XviD		1920x1080
		H.264 BP/MP/HP		1920x1080
		MPEG4 SP/ASP		1920x1080
		Motion JPEG		1920x1080
*.asf	ASF	DivX 3.11/4.x/5.1/6.0	MP3 AC3 LPCM ADPCM WMA	1920x1080
		XviD		1920x1080
		H.264 BP/MP/HP		1920x1080
		MPEG4 SP/ASP		1920x1080
		Motion JPEG		1920x1080
*.wmv	ASF	Window Media Video v9	WMA	1920x1080
*.mp4	MP4	H.264 BP/MP/HP	MP3 ADPCM AAC	1920x1080
		MPEG4 SP/ASP		1920x1080
		XVID		1920x1080
*.3gp	3GPP	H.264 BP/MP/HP	ADPCM AAC HE-AAC	1920x1080
		MPEG4 SP/ASP		1920x1080

Getting Started

File Extension	Container	Video Codec	Audio Codec	Resolution
*.vro	VRO VOB	MPEG2	AC3	1920x1080
		MPEG1	MPEG LPCM	352x288
*.mpg *.mpeg	PS	MPEG1	AC3	352x288
		MPEG2	MPEG LPCM	1920x1080
		H.264	AAC	1920x1080
*.ts *.tp *.trp	TS	MPEG2	AC3	1920x1080
		H.264	AAC MP3	1920x1080
		VC1	DD+ HE-AAC	1920x1080

Restrictions

- Some of the Codecs listed above will not play if there is a problem with the contents.
- Corrupt video sources or sources with incorrect container information will not play properly.
- AV sources that exceed the standard bit rate or frame rate may not play properly.
- If the index table is corrupt, the Seek (Jump) function will not be supported.
- If you play a video via the network, it may not play properly depending on the network status.

Video decoder

- Up to H.264 Level 4.1 supported.
- H.264 FMO/ASO/RS, VC1 SP/MP/AP L4, AVCHD not supported.
- XVID, MPEG4 SP, ASP :
 - Below 1280 x 720: 60 frame max
 - Above 1280 x 720: 30 frame max
- GMC 2 or higher not supported.

Audio decoder

- Up to WMA 7,8,9 supported.
- WMA 9 PRO with more than two channels (multi-channel) not supported.
- WMA 9 Lossless, Voice not supported.
- WMA sampling rate at 22050Hz mono not supported.

Music File Support

File Extension	Container	Audio Codec	Support Range
*.mp3	MP3	MP3	-
*.wma	WMA	WMA	Compliant with WMA version 10 * Sampling rates (in kHz) - 8, 11, 16, 22, 32, 44.1, 48 * Bit rates - All bit-rates in the range 5kbps to 384kbps

Notes on the USB connection




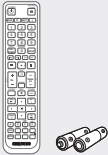



Supported devices:

USB storage media, MP3 player, digital camera, USB card reader

- 1) The product does not support folder or file names longer than 125 characters.
- 2) A subtitle file bigger than 300 KB may not be properly displayed.
- 3) Some USB/digital camera devices may not be compatible with the product.
- 4) The product supports the FAT16 and FAT32 file systems.
- 5) Photo (JPEG), music (MP3), and video files must have Korean or English file names. Otherwise, the files will not play.
- 6) Connect USB devices directly to the product's USB port. Connecting through a USB cable may cause compatibility problems.
- 7) Inserting more than one memory device into a multi-card reader may cause the reader to operate improperly.
- 8) The product does not support the PTP protocol for digital cameras
- 9) Do not disconnect a USB device during a "loading" process.
- 10) The bigger the image resolution, the longer the image takes to display.
- 11) This player cannot play MP3 files with DRM (Digital Rights Management) downloaded from commercial sites.

Accessories

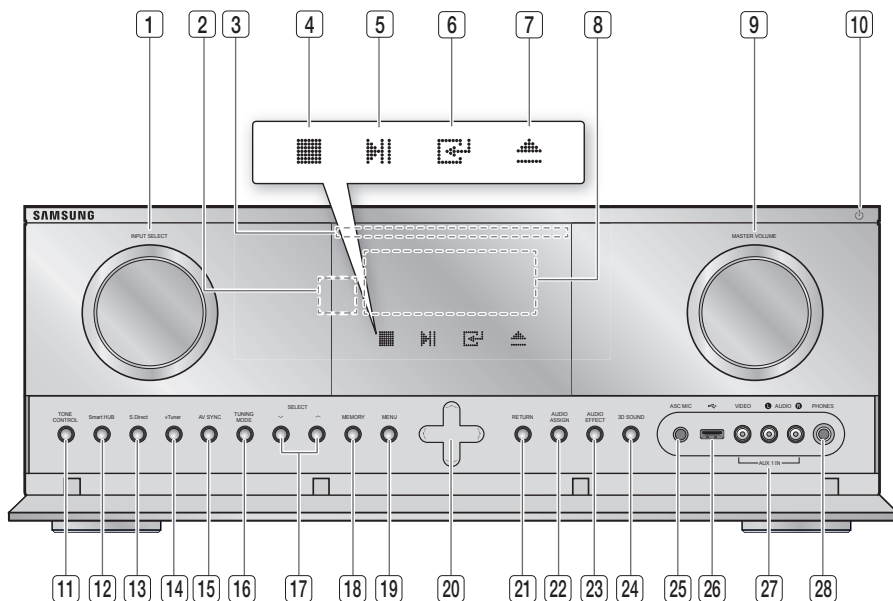
Check the box for the supplied accessories listed below.

		 (For Power cord)	
<p>Video Cable (AH39-40001V)</p>	<p>FM Antenna (AH42-00017A)</p>	<p>Toroidal Ferrite Core (3301-000144)</p>	<p>Remote Control (AH59-02377A)/ Batteries (AAA size) (4301-000116)</p>
			
<p>User's Manual (AH68-02334S)</p>	<p>iPod Dock (AH96-00051B)</p>	<p>ASC Microphone (AH30-00099A)</p>	

Getting Started

Description

Front Panel



1	INPUT SELECT	Used to select a source. BD/DVD → SAT → GAME → AUX1 → AUX2 → CD → R-IPOD → FM → TV
2	REMOTE CONTROL SENSOR	Detects signals from the remote control.
3	DISC SLOT	Insert disc here.
4	STOP BUTTON	Stops disc playback.
5	PLAY/PAUSE BUTTON	Plays a disc or pauses playback.
6	ENTER BUTTON	Selects menu items.
7	OPEN/CLOSE BUTTON	Ejects a Disc.
8	DISPLAY	Displays the playing/audio input status, time, listening mode, etc.
9	MASTER VOLUME	Adjusts the volume level.
10	POWER BUTTON (⏻)	Turns the product on and off.

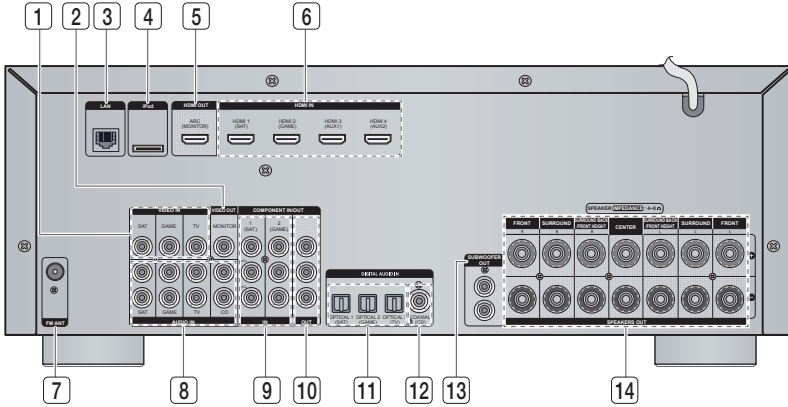
11	 TONE CONTROL BUTTON	Used to set the bass, treble level and tone to on/off.
12	 SMART HUB BUTTON	Display the Smart Hub service screen.
13	 S.DIRECT BUTTON	Used to select the S.DIRECT mode. (Output the original signal as it is without applying the sound field effect or any other sound effect.
14	 vTuner BUTTON	Used to select the vTuner.
15	 AV SYNC BUTTON	Used to set the Audio Delay.
16	 TUNING MODE BUTTON	Used to select the Manual or Preset mode for FM radio.
17	 SELECT BUTTON	Used to change the radio frequency.
18	 MEMORY BUTTON	Used to set a preset radio frequency.
19	 MENU BUTTON	Display the home menu screen.
20	 UP(▲), DOWN(▼), LEFT(←), RIGHT(→) BUTTONS	Used to move the cursor up, down, left or right.
21	 RETURN BUTTON	Return to the previous menu.
22	 AUDIO ASSIGN BUTTON	Toggles to select an input mode for the selected source.
23	 AUDIO EFFECT BUTTON	Toggles to select a surround sound mode.
24	 3D SOUND BUTTON	Used to set the 3D sound.
25	 ASC MIC JACK	Used to connect the ASC Microphone for setting up MRC (Musical Room Calibration).
26	 USB PORT	You can connect a USB memory flash stick here and use it as storage when the product is connected to BD-LIVE. You can also use the USB Host for software upgrades and MP3/JPEG/DivX/MKV/MP4 playback.
27	 AUX 1 IN JACKS	Auxiliary AV input terminals used to connect a camcorder, portable DVD player or gaming device.
28	 PHONES JACK	Used to connect a set of headphones or earphones.

NOTE

- You must use a USB memory flash stick to perform a software upgrade using the USB Host jack.
- When the product displays the Blu-ray disc menu, you cannot start the movie by pressing the **PLAY** button on the product or the remote. To play the movie, you must select Play Movie or Start in the disc menu, and then press the **ENTER** button.

Getting Started

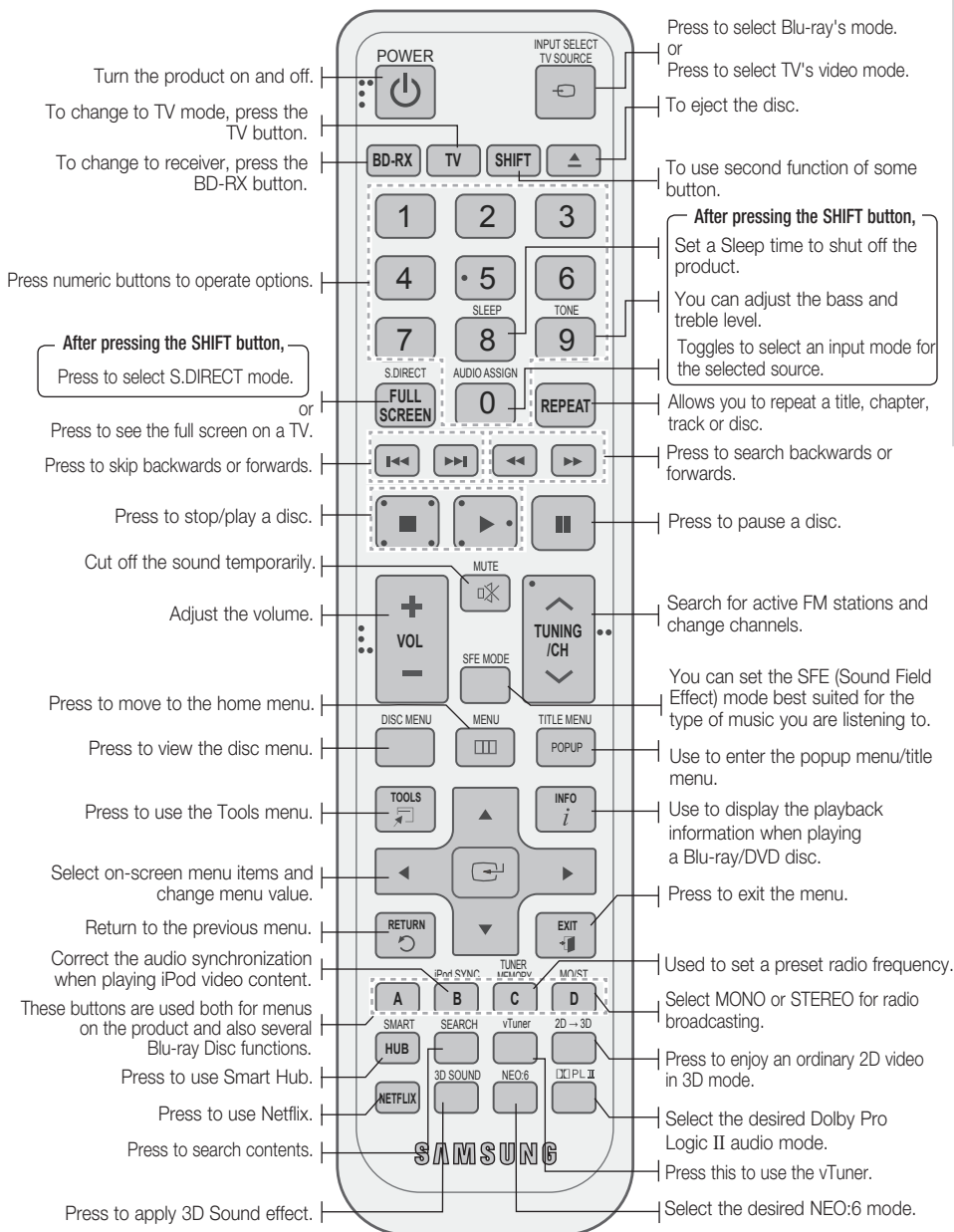
Rear Panel



1	VIDEO IN JACKS	Receives the video signal from a video player (SAT, GAME, TV).
2	VIDEO OUT JACK	Outputs the video signal to video devices (TV, Projector etc).
3	LAN TERMINAL	Can be used for network based services (see pages 70~79), BD-LIVE and software upgrade under the network connection.
4	iPod JACK	Connect the iPod dock connector here.
5	HDMI OUT JACK	Outputs digital video and audio signals simultaneously using an HDMI cable.
6	HDMI IN JACKS	Receives digital video and audio signals simultaneously using an HDMI cable.
7	FM ANTENNA JACK	Connect the FM antenna.
8	AUDIO IN JACKS	Receives the audio signal from a video player (SAT, GAME, TV, CD).
9	COMPONENT VIDEO IN JACKS	Receives the component video signal.
10	COMPONENT VIDEO OUT JACKS	Outputs the component video signal.
11	OPTICAL IN JACKS (DIGITAL AUDIO IN)	Receives the digital optical audio signal.
12	COAXIAL IN JACK (DIGITAL AUDIO IN)	Receives the digital coaxial audio signal.
13	SUBWOOFER AUDIO OUT JACKS	Connect the subwoofers.
14	SPEAKER OUT TERMINALS	The front speaker and surround back speaker ports can be connected to a speaker that supports bi-amplifying. For connecting to the bi-amplifier, refer to page 24.

Remote Control

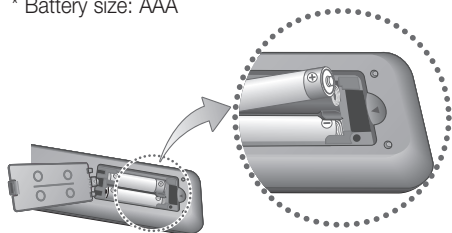
Tour of the Remote Control



Getting Started

Installing batteries in the Remote Control

* Battery size: AAA



NOTE

- Make sure to match the “+” and “-” ends of the batteries with the diagram inside the compartment.
- Assuming typical TV usage, the batteries last for about one year.
- The remote control can be used up to approximately 23 feet (7 meters) in a straight line.

Setting the Remote Control

You can control certain functions of your TV with this remote control.

When operating a TV with the remote control

- Press the **TV** button to set the remote control to TV mode.
- Turn on your TV.
- While holding down the **POWER** button, enter the code corresponding to your brand of TV.
 - If there is more than one code listed for your TV in the table, enter one at a time to determine which code works.
 - Example : For a Samsung TV**
While holding down the **POWER** button, use the number buttons to enter 00. If that does not work, try 15, then 16, etc.
- If the TV turns off, the setting is complete.
 - You can use the TV **POWER**, **VOLUME**, **CHANNEL**, and **Numeric** buttons (0~9).

NOTE

- The remote control may not work on some brands of TV's. Also, some operations may not be possible, depending on your brand of TV.
- The remote control will work with Samsung TVs by default.

TV Brand Code List

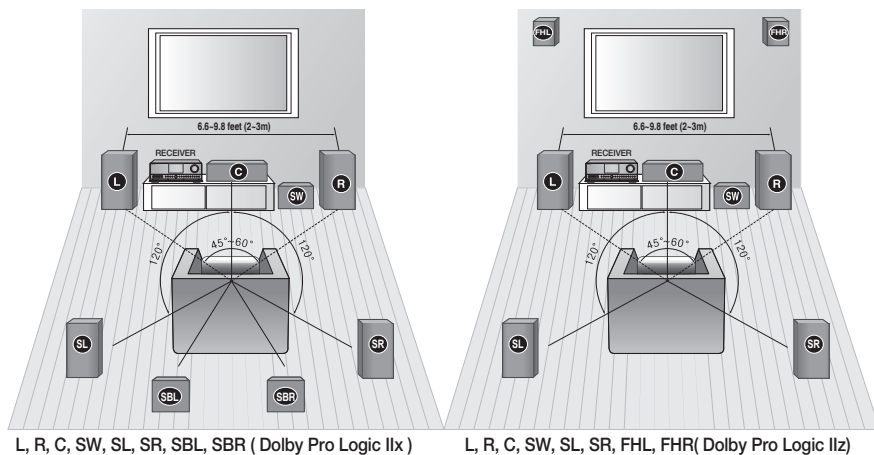
Brand	Code	Brand	Code
Admiral (M.Wards)	56, 57, 58	Mitsubishi/MGA	18, 40, 59, 60, 75
A Mark	01, 15	MTC	18
Anam	01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14	NEC	18, 19, 20, 40, 59, 60
AOC	01, 18, 40, 48	Nikei	03
Bell & Howell (M.Wards)	57, 58, 81	Onking	03
Brocsonic	59, 60	Onwa	03
Candle	18	Panasonic	06, 07, 08, 09, 54, 66, 67, 73, 74
Cetronic	03	Penney	18
Citizen	03, 18, 25	Philco	03, 15, 17, 18, 48, 54, 59, 62, 69, 90
Cinema	97	Philips	15, 17, 18, 40, 48, 54, 62, 72
Classic	03	Pioneer	63, 66, 80, 91
Concerto	18	Portland	15, 18, 59
Contec	46	Proton	40
Coronado	15	Quasar	06, 66, 67
Craig	03, 05, 61, 82, 83, 84	Radio Shack	17, 48, 56, 60, 61, 75
Croslex	62	RCA/Proscan	18, 59, 67, 76, 77, 78, 92, 93, 94
Crown	03	Realistic	03, 19
Curtis Mates	59, 61, 63	Sampo	40
CXC	03	Samsung	00, 15, 16, 17, 40, 43, 46, 47, 48, 49, 59, 60, 98
Daewoo	02, 03, 04, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 34, 35, 36, 48, 59, 90	Sanyo	19, 61, 65
Daytron	40	Scott	03, 40, 60, 61
Dynasty	03	Sears	15, 18, 19
Emerson	03, 15, 40, 46, 59, 61, 64, 82, 83, 84, 85	Sharp	15, 57, 64
Fisher	19, 65	Signature 2000 (M.Wards)	57, 58
Funai	03	Sony	50, 51, 52, 53, 55
Futuretech	03	Soundesign	03, 40
General Electric (GE)	06, 40, 56, 59, 66, 67, 68	Spectricon	01
Hall Mark	40	SSS	18
Hitachi	15, 18, 50, 59, 69	Sylvania	18, 40, 48, 54, 59, 60, 62
Inkel	45	Symphonic	61, 95, 96
JC Penny	56, 59, 67, 86	Tatung	06
JVC	70	Techwood	18
KTV	59, 61, 87, 88	Teknika	03, 15, 18, 25
KEC	03, 15, 40	TMK	18, 40
KMC	15	Toshiba	19, 57, 63, 71
LG (Goldstar)	01, 15, 16, 17, 37, 38, 39, 40, 41, 42, 43, 44	Vidtech	18
Luxman	18	Videch	59, 60, 69
LXI (Sears)	19, 54, 56, 59, 60, 62, 63, 65, 71	Wards	15, 17, 18, 40, 48, 54, 60, 64
Magnavox	15, 17, 18, 48, 54, 59, 60, 62, 72, 89	Yamaha	18
Marantz	40, 54	York	40
Matsui	54	Yupiteru	03
MGA	18, 40	Zenith	58, 79
		Zonda	01
		Dongyang	03, 54

Connections

This section involves various methods of connecting the receiver to other external components. Before moving or installing the product, be sure to turn off the power and disconnect the power cord.

Speaker Positioning

There are two methods for positioning the speakers.



Position of Receiver

Place the Receiver on a dedicated stand or rack.

Subwoofer **SW**

The position of the subwoofer is not so critical. Place it anywhere you like.

Front Speakers **L R**

Place these speakers in front of your listening position, facing inwards (about 45°) toward you.

Place the speakers so that their tweeters will be at the same height as your ears.

Align the front face of the front speakers with the front face of the center speaker or place them slightly in front of the center speaker.

Center Speaker **C**

It is best to install it at the same height as the front speakers.

You can also install it directly over or under the TV.

Surround Speakers **SL SR**

Place these speakers behind your listening position.

If there isn't enough room, place these speakers so they face each other.

Place them about 2 to 3 feet (60 to 90cm) above your ears, facing slightly downward.

Unlike the front and center speakers, the surround speakers are used to handle mainly sound effects and sound will not come from them all the time.

Connections

Surround Back Speakers **SBL** **SBR**

If you are using two surround center speakers, place them behind the listening position. Place the surround back speaker about 2.3-3.3 feet (70 cm to 1 m).

Front Height Speakers **FHL** **FHR** (Using Dolby Pro Logic IIz)

When using Dolby Pro Logic IIz, place the Surround Back Speakers on the FHL, FHR position above the front L and front R speakers at least 3.3 feet(1 m) above each one.

Speaker Configuration

For the best surround-sound experience, you should connect seven speakers and a powered subwoofer. The following table shows which channels you should use based on the number of speakers you have.

2 speakers	3 speakers	4 speakers	5 speakers	6 speakers	7 speakers (DPL IIx)	7 speakers (DPL IIz)
L	L	L	L	L	L	L
R	R	R	R	R	R	R
	C		C	C	C	C
		SL	SL	SL	SL	SL
		SR	SR	SR	SR	SR
				SBL	SBL	FHL
					SBR	FHR

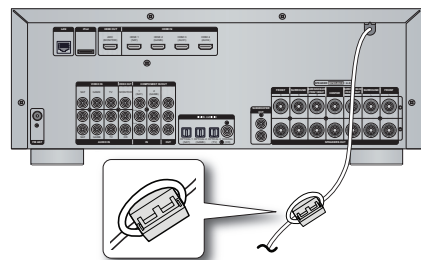
NOTE

- No matter how many speakers you use, a powered subwoofer is recommended for powerful and solid bass.
- If you place a speaker near your TV set, screen color may be distorted because of the magnetic field generated by the speaker. If this occurs, place the speaker away from your TV set.

Attaching the Toroidal Ferrite Core to the Power Cord of the Main Unit

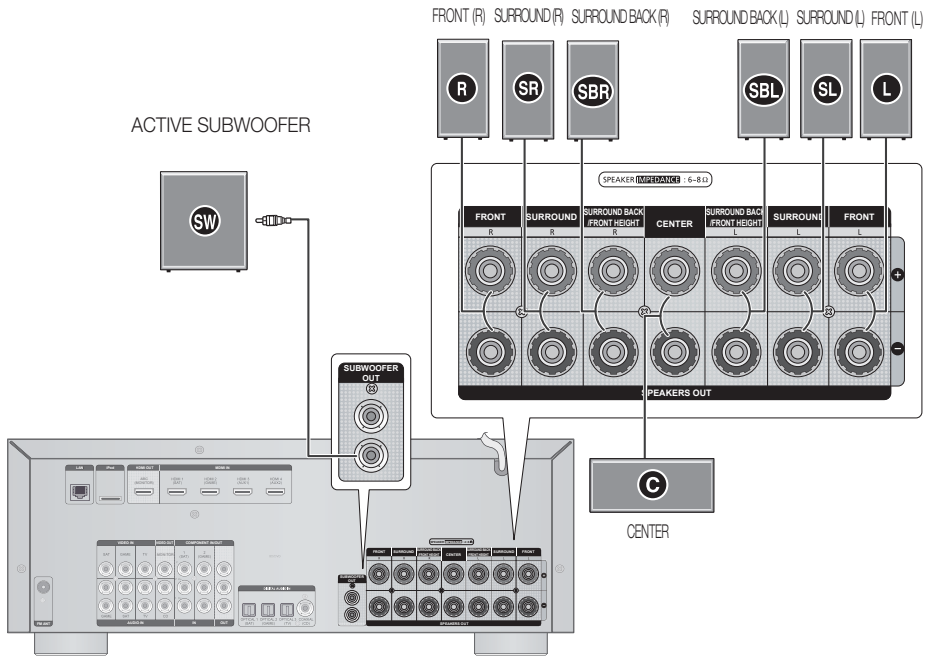
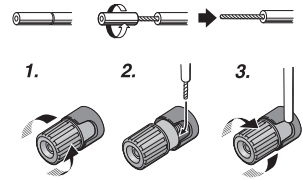
If you attach a Toroidal ferrite core to the power cord, it will help to prevent RF interference from radio signals.

1. Pull the fixing tab of the Toroidal ferrite core to open it.
2. Make a loop in the power cord.
3. Attach the Toroidal ferrite core to the power cord as the figure shows and press it until it clicks.



Connecting Speaker Wire

1. Loosen the knob by turning counterclockwise.
2. Insert the bare part of the wire into the hole in the side of each terminal.
3. Tighten the knob by turning clockwise to secure the wire.



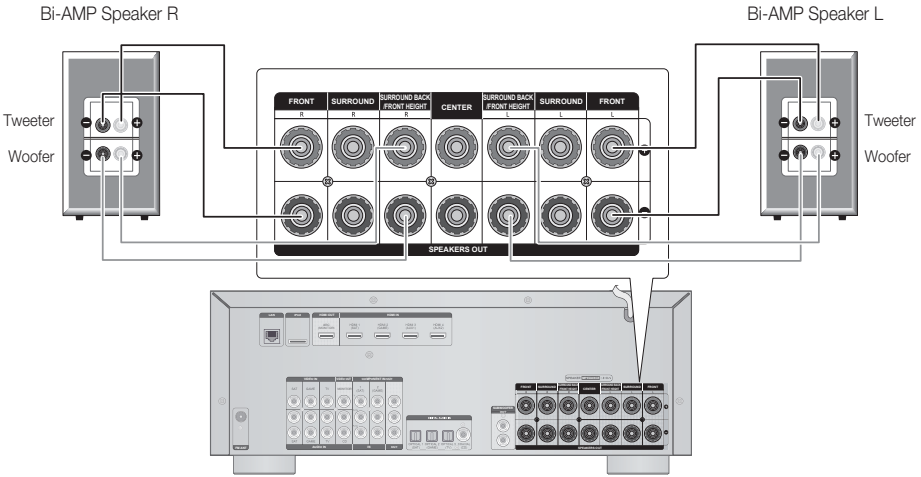
NOTE

- Keep the subwoofer speaker out of reach of children to prevent them from inserting their hands or objects into the duct (hole).
- Never touch speaker terminals while the power is on. Doing so could result in electric shock.
- Make sure the polarities (+ and -) are correct.
- If you want to use two active subwoofer speakers, connect both subwoofer speakers into the SUBWOOFER OUT terminals in the rear panel.
- We recommend more than 120W of permitted input and connection with speaker that more than 4ohm impedance.
If you use lower level products than our recommend, it can be cause of Speaker Unit or Amplifier's trouble so be cations about it.

Connections

Connecting the Bi-AMP Speaker

Connect the tweeter (high range) port and woofer (low range) to the front port and surround back speaker port respectively as appropriate. Then, you can use the bi-amplification feature that supports enriched high range and base tones.



! CAUTION

- If Bi-amp is active, you may encounter a restricted access if you have not removed the shorting bar (like a jumper) in both tweeter and subwoofer ports in the front speaker.
- Before you can use bi-amp, ensure that you use a speaker that supports bi-amplifying.

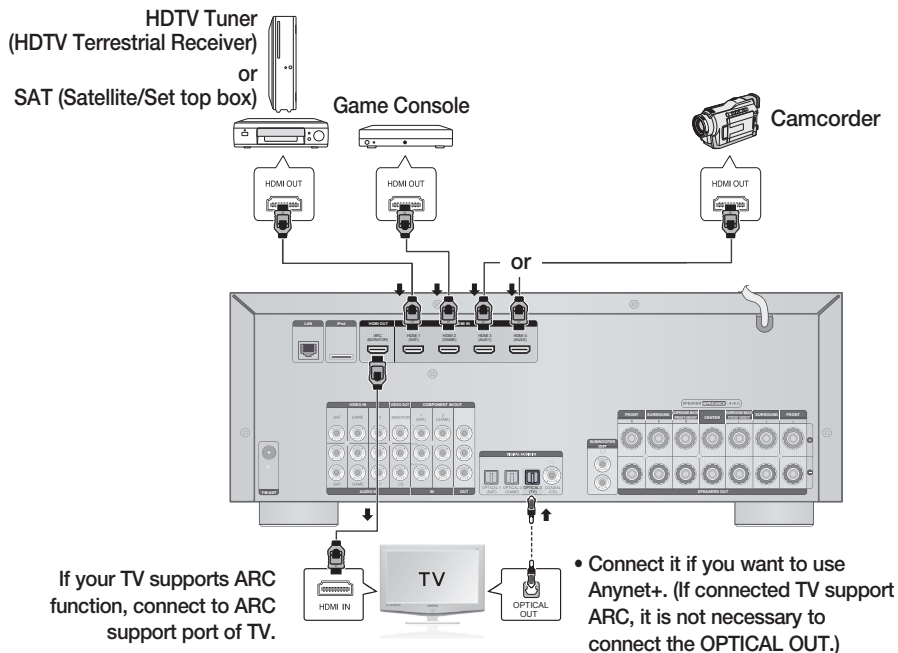
NOTE

- To enable the Bi-Amp feature, you must set Surround Back Setup to Bi-AMP in Settings menu. See page 41.
- With the Bi-AMP feature, you can use up to 5.1 channels for speaker output in the main unit.

Connecting External Devices/your TV via HDMI

HDMI is a digital standard interface for connection to such devices as a TV, projector, DVD player, Blu-ray player, set-top box and more.

HDMI removes any loss of signal from analog conversion, enabling you to enjoy video and audio sound quality as it was originally created in the digital source.



High-bandwidth Digital Content Protection System (HDCP) support

To play digital contents through the HDMI connection, both the connected external device and TV must support High-bandwidth Digital Content Protection System (HDCP). This product supports HDCP.

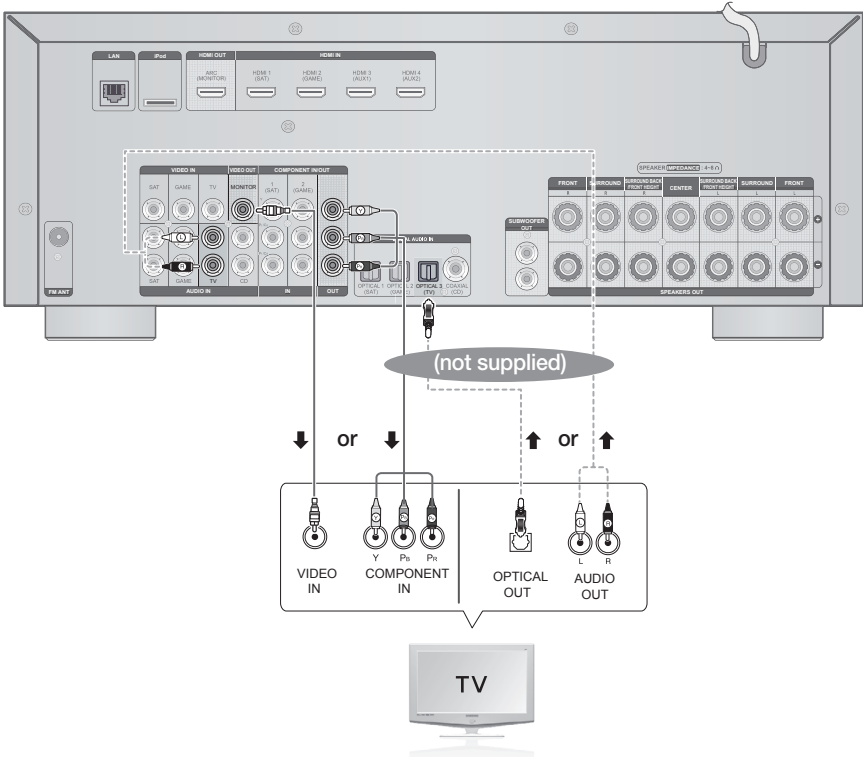
Compatibility with a TV Supporting HDMI	
A TV with an HDMI jack.	Video/Audio
A TV with a DVI-D jack (TV supporting HDCP)	Video
A TV with a DVI-D jack (TV not supporting HDCP)	-

NOTE

- Audio from SACD discs will not be heard with this connection. To play a DVD disc whose copyright is protected by CPPM, use a product supporting CPPM.
- The quality of the audio output through the HDMI jack (sampling frequency and bit rate) may be limited by the performance of the connected device.
- Since HDMI connection supports both video and audio, you don't have to connect an additional audio cable.

Connections

Connecting to your TV



Video Connection

If your television is equipped with Component Video inputs, connect a Component video cable(not supplied) from the Component Video Output (PR, PB and Y) jacks on the back of your Receiver to the Component Video Input jacks on your TV.

OR

Connect the Video cable from the VIDEO OUT (MONITOR) jack on the back of your Receiver to the Video Input jack on your TV.

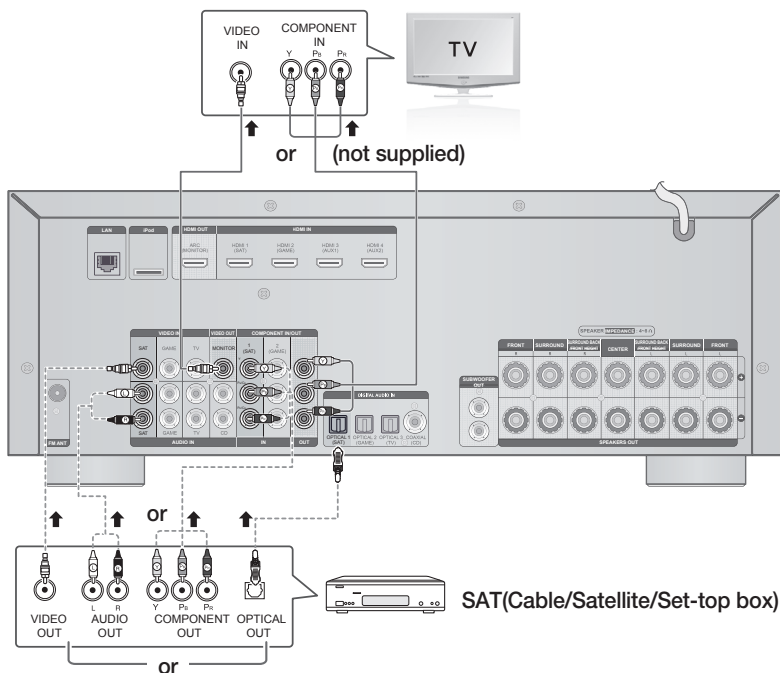
Audio Connection

Connect the Digital Input (OPTICAL 3) on your Receiver to the Digital Output of the TV.

OR

Connect AUDIO IN (TV) on your Receiver to the Audio Out of the TV.

Connecting a Cable, Satellite or Set-top Box



Video Connection

Connect a Component video cable(not supplied) from the COMPONENT IN (SAT) (PR, PB and Y) jacks on the back of your Receiver to the Component Video Output jacks on your SAT.

OR

Connect a Video cable from the VIDEO IN (SAT) jack on the back of your Receiver to the Video Output jack on your SAT.

Audio Connection

Connect the Digital Input (OPTICAL 1) on your Receiver to the Digital Output of the SAT.

OR

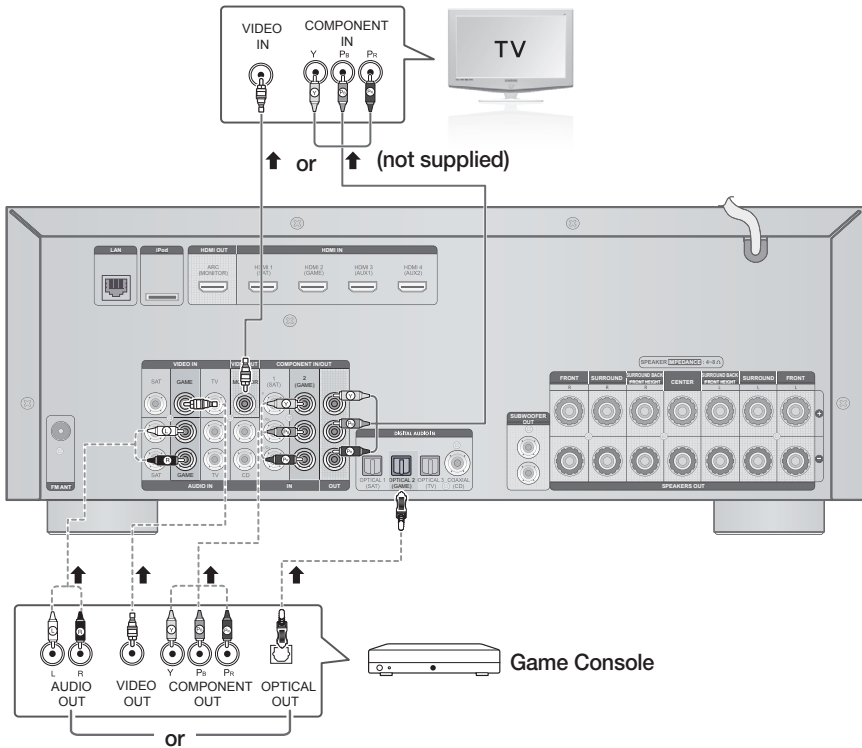
Connect AUDIO IN (SAT) on your Receiver to the Audio Out of the SAT.

NOTE

- Disconnect the power plug from the outlet if you will not use this unit for a long period of time.
- If the cable/set-top box has only one audio output jack, connect it to either the right or left audio input jack of the main unit. Connect the audio cable's red plug to the red jack and white cable to the white jack.

Connections

Connecting a Game Console



Video Connection

Connect a Component video cable(not supplied) from the COMPONENT IN (Game) (PR, PB and Y) jacks on the back of your Receiver to the Component Video Output jacks on your Game Console.

OR

Connect a Video cable from the VIDEO IN (Game) jack on the back of your Receiver to the Video Output jack on your Game Console.

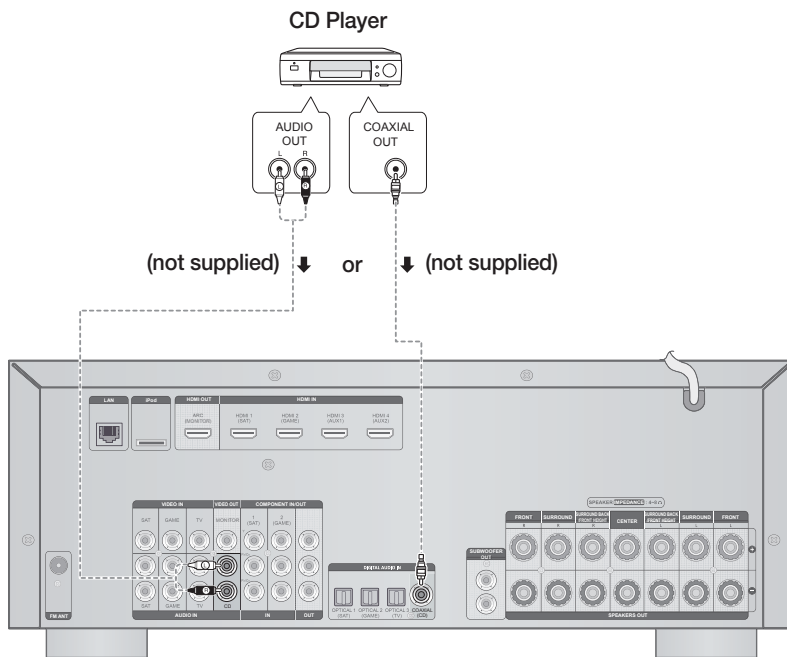
Audio Connection

Connect the Digital Input (OPTICAL 2) on your Receiver to the Digital Output of the Game Console.

OR

Connect AUDIO IN (Game Console) on your Receiver to the Audio Out of the Game Console.

Connecting a CD Player



Audio Connection

Connect the Digital Input (COAXIAL) on your Receiver to the Digital Output of the CD Player.

OR

Connect AUDIO IN (CD) on your Receiver to the Audio Out of the CD player.

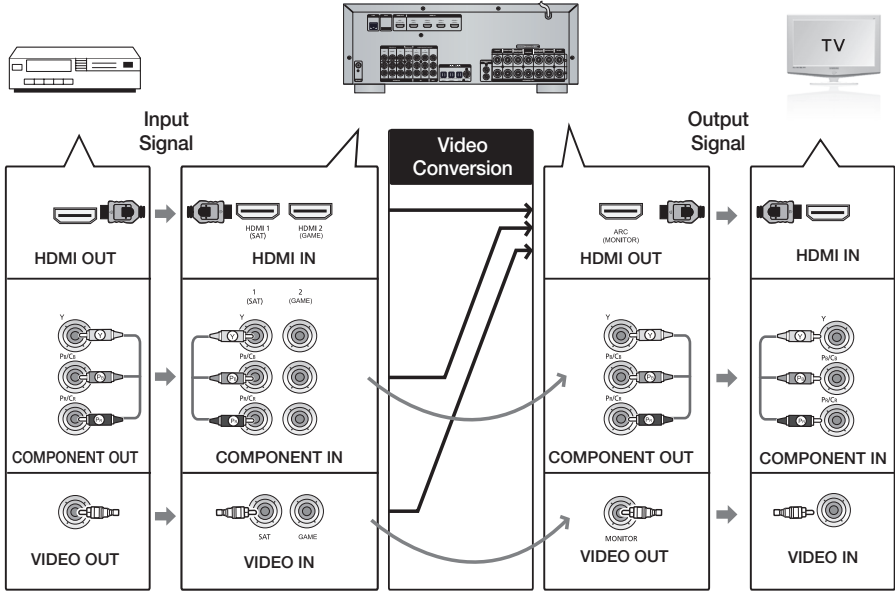
NOTE

- If the CD player has only one audio output jack, connect it to either the right or left audio input jack of the main unit. Connect the audio cable's red plug to the red jack and white cable to the white jack.

Connections

Video Conversion Flow According to the Connected Port

As shown in the illustration, if the unit's HDMI Out is connected to a TV or monitor, the analog video source (composite or component) from the video device is processed for up-conversion automatically for HDMI output. If connected to a TV or monitor through Composite or Component ports, corresponding analog signal will be output respectively, without any conversion. In case if the unit and video source device is connected in multiple methods (Component and Composite video) at the same time: Video input signal is automatically selected in the order of **Component Video** → **Composite Video**.

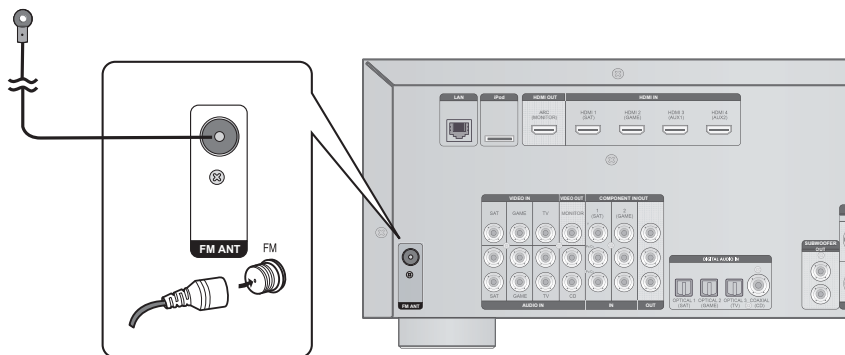


NOTE

- This enables upconverting up to a quality of 1080p.
- Auto conversion is not applied to a video source incoming from HDMI IN port.
- The maximum resolution of the input video signal is 480i, and it will not support higher input resolution.
- Video conversion is compatible with the NTSC color system only.

Connecting the FM Antenna

1. Connect the FM antenna supplied to the FM ANTENNA terminal as a temporary measure.
2. Slowly move the antenna wire around until you find a location where reception is good, then fasten it to a wall or other rigid surface.



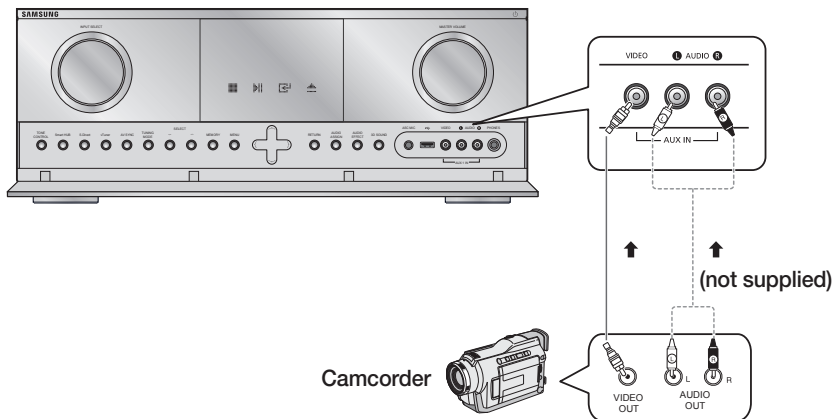
FM antenna (supplied)

NOTE

- Do not place the antenna cable close to the power cord. Keep it as far away as possible.
- If you experience poor FM reception, use an external antenna.

Connecting AUX Components

You can connect external devices you use for a short time (camcorder, game console, mobile equipment, etc.) to the front of this unit for convenience.



Connections

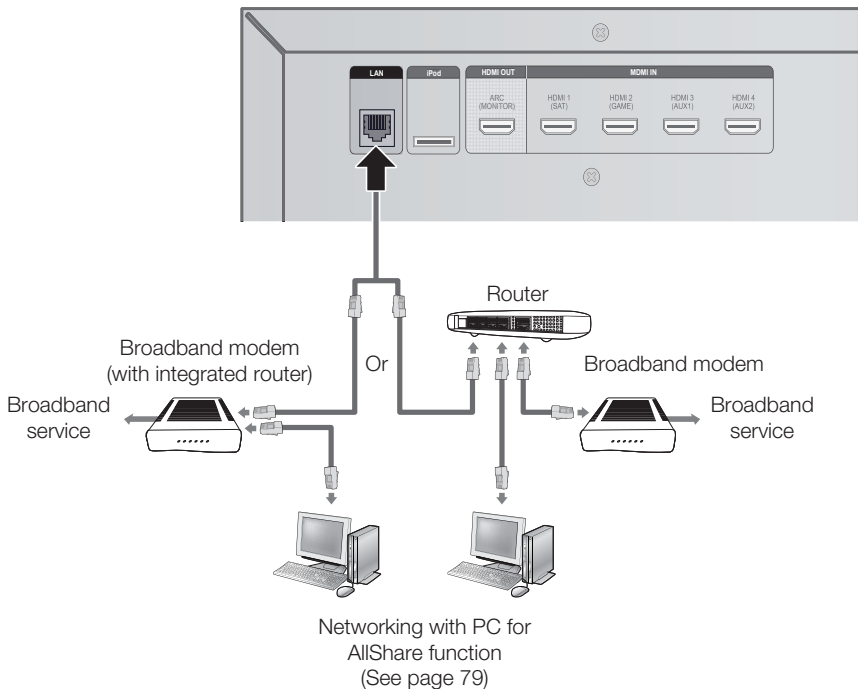
Connecting to a Network

You can connect this product to a network and use network based services such as Smart Hub and BD-LIVE (See pages 70~79), as well as receive software upgrades through the network connection. We recommend using a wireless router or IP router for the connection.

For more information on router connection, refer to the user manual of the router or contact the router manufacturer for technical assistance.

Cable Network

1. Using the Direct LAN Cable (UTP cable), connect the LAN terminal of the product to the LAN terminal of your modem.
2. Set the network options. (See page 47)

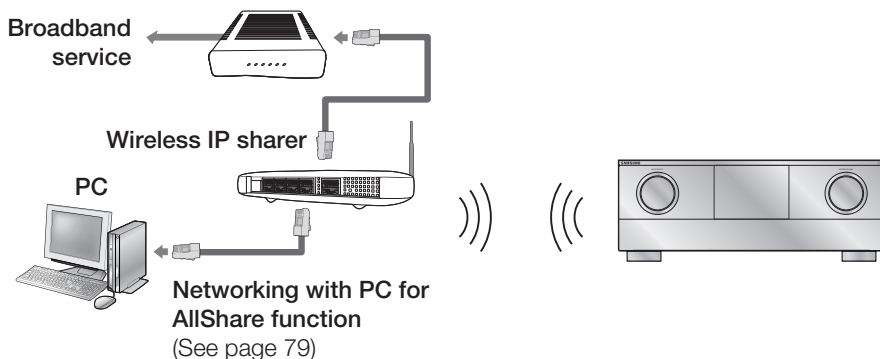


NOTE

- Internet access to Samsung's software update server may not be allowed, depending on the router you use or the ISP's policy. For more information, contact your ISP (Internet Service Provider).
- DSL users, please use a router to make a network connection.
- To use the AllShare function, you must connect your PC to the network as shown in the figure.

Wireless Network

You can connect the Receiver to your network through a wireless IP sharer (router). To set the network configuration options. see page 47.

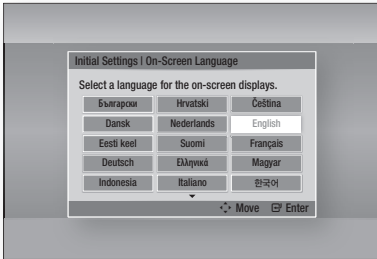


NOTE

- To use a wireless network, your product must be connected to a wireless IP sharer (router). If the wireless IP sharer supports DHCP, your product can use a DHCP (dynamic) or static IP address to connect to the wireless network.
- This product supports IEEE 802.11b,g and n. We recommend using IEEE 802.11n. When you play video over a IEEE 802.11b or g connection, the video may not play smoothly.
- Select a channel for the wireless IP sharer that is not currently being used. If the channel set for the wireless IP sharer is currently being used by another device nearby, this will result in interference and communication failure.
- If you select the Pure High-throughput (Greenfield) 802.11n mode and set your routers's Security Encryption type to WEP, TKIP or TKIPAES (WPS2Mixed), your Samsung home theater will not support the connection in compliance with new Wi-Fi certification specifications.
- If your router supports WPS (Wi-Fi Protected Setup), you can connect to the network via PBC (Push Button Configuration) or PIN (Personal Identification Number). WPS will automatically configure the SSID and WPA key in either mode.
- You can set up the wireless network connection in three ways:
 - Using Auto Setup (the Auto Network Search function) through Wireless (General)
 - Using WPS(PBC)
 - Using One Foot Connection
- Wireless LAN, by its nature, may cause interference, depending on the operating conditions. (router performance, distance, obstacles, interference by other radio devices, etc).
- Set the wireless IP sharer to Infrastructure mode. Ad-hoc mode is not supported.
- The home theater supports the following security protocols only:
 - 1) Authentication Mode : WEP, WPAPSK, WPA2PSK
 - 2) Encryption Type : WEP, AES
- To use the AllShare function, you must connect your PC to your network as shown in the figure. The connection can be wired or wireless.

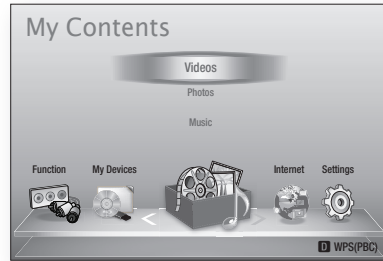
Initial Settings

1. Turn on your TV after connecting the product. When you connect and turn on the product to a TV for the first time, the Initial Settings screen appears.



2. Press the ▲▼◀▶ buttons to select the desired language, and then press the **ENTER** button.
3. Press the **ENTER** button to select **Start**.
4. Press the ▲▼ buttons to select the desired TV Aspect Ratio, and then press the **ENTER** button. (See page 37)
If you press the **BLUE (D)** button to skip **Network Setup**, you can access the Home menu even the Network Setup is not completed.
5. Press the ▲▼ buttons to select the desired Network Settings : **Wired**, **Wireless (General)**, **WPS(PBC)** or **One Foot Connection**, and then press the **ENTER** button. If you do not know the details of your Network Settings, press the **BLUE (D)** button on your remote instead to skip Network Settings here, finish the Initial Settings, and go to the Home menu.
If you selected a Network Settings, go to pages 47~50 for more information about the Network settings. When done, go to Step 6.
6. The Home menu appears. (For more information about the Home menu, please see page 35.)

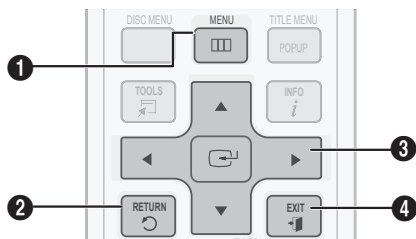
• Home Menu



NOTE

- The Home menu will not appear if you do not configure the initial settings except as noted below.
- If you press the **BLUE (D)** button during the network setup, you can access the Home menu even if the network setup is not completed yet.
- If you want to display the Initial Setting screen again to make changes, select the Initial Settings. (See page 51)
- If you use an HDMI cable to connect the product to an **Anynet+(HDMI-CEC)**-compliant Samsung TV and 1.) You have set the **Anynet+(HDMI-CEC)** feature to **On** in both the TV and the product and 2.) You have set the TV to a language supported by the product, the product will select that language as the preferred language automatically.
- If you leave the product in the stop mode for more than 5 minutes without using it, a screen saver will appear on your TV. If the product is left in the screen saver mode for more than 20 minutes, the power will automatically turn off.

Accessing the Settings Menu



1 **MENU** Button : Press to move to the Home menu.

2 **RETURN** Button : Return to the previous menu.

3 **ENTER / DIRECTION** Button :
Move the cursor or select an item.
Activate the currently selected item.
Confirm a setting.

4 **EXIT** Button : Press to exit the current menu.

- Press the ◀▶ buttons to select **Settings**, and then press the **ENTER** button.
- Press the ▲▼ buttons to select the desired submenu, and then press the **ENTER** button.
- Press the ▲▼ buttons to select the desired item, and then press the **ENTER** button.
- Press the **EXIT** button to exit the menu.

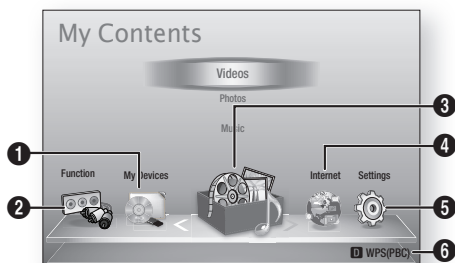
NOTE

- When the product is connected to a network, select **Internet** from the Home menu. Download the desired content from **Samsung Apps**. (See pages 77~79)
- The access steps may differ depending on the menu you selected.
- The OSD (On Screen Display) may change in this product after you upgrade the software version.

To access the Settings menu and sub-menus, follow these steps:

- Press the **POWER** button.
The Home Menu appears.

• Home Menu



1 Selects My Devices.

2 Selects Function.

3 Selects My Contents.

4 Selects Internet.

5 Selects Settings.

6 Displays the buttons available.

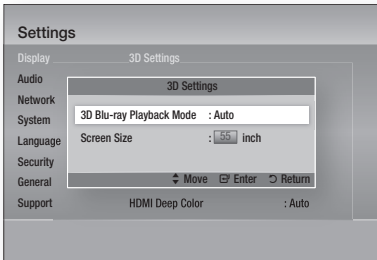
Setup

Display

You can configure various display options such as the TV Aspect Ratio, Resolution, etc.

3D Settings

Select whether to play a Blu-ray Disc with 3D contents in 3D Mode.



3D Blu-ray Playback Mode

You can choose whether to watch a 3D Blu-ray disc in 3D or 2D mode before playing the 3D disc. It is automatically played in 2D mode if your TV cannot support 3D contents.

- **Auto** : Automatically detect the 3D capability of the connected TV and play a 3D Blu-ray disc in 3D or 2D accordingly.
- **3D → 3D** : 3D Blu-ray Discs are played in 3D mode at all times. If a TV cannot support 3D Blu-ray discs, the playing screen can be blank.
- **3D → 2D** : 3D Blu-ray Discs are played in 2D mode at all times. Choose this to view a picture without the 3D effect or when a TV cannot support 3D Blu-ray discs.

NOTE

- To stop a movie during 3D playback, press the **STOP(■)** button once. The movie stops and the 3D mode option is de-activated. To change a 3D option selection when you are playing a 3D movie, press the **STOP(■)** button once. The Blu-ray menu appears. Press the **STOP(■)** button again, then select 3D Settings in the Blu-ray menu.

- Depending on the content and the position of the picture on your TV screen, you may see vertical black bars on the left side, right side, or both sides.

Screen Size

Lets you enter the actual screen size of your TV so that the product can adjust the image according to the screen size and display an optimal 3D image. (The maximum allowed screen size is 116 inches for this product.)

! CAUTION

- If you want to enjoy 3D content, connect a 3D TV to the product's HDMI OUT port using a high-speed HDMI cable. Put on 3D glasses before playing the 3D content.
- The product outputs 3D signals only through HDMI cable connected to the HDMI OUT port.
- As the video resolution in 3D play mode is fixed according to the resolution of the original 3D video, you can not change the resolution to your preference.
- Some functions such as BD Wise, screen size adjustment, and resolution adjustment may not operate properly in 3D play mode.
- Stay at least three times the width of the screen from the TV when watching 3D images. For example, if you have a 46 inch screen, stay 138 inches (11.5 feet) from the screen.
 - Place the 3D video screen at eye level for the best 3D picture.
- When the product is connected to some 3D devices, the 3D effect may not function properly.

TV Aspect (Picture Size and Format)

Depending on the type of television you have, you may want to adjust the screen size setting.

- **16:9 Original** : Select when you connect the product to a 16:9 TV screen. The product will display all content in its original aspect ratio. Content formatted in 4:3 will be displayed with black bars on the left and right.
- **16:9 Full** : Select when you connect the product to a 16:9 TV screen. All content will fill the full screen. Content formatted in 4:3 will be stretched.
- **4:3 Letter Box** : Select when you connect the product to a 4:3 TV screen. The product will display all content in its original aspect ratio. Content formatted in 16:9 will be displayed with black bars on the top and bottom.
- **4:3 Pan-Scan** : Select when you connect the product to a 4:3 TV screen. 16:9 content will have the extreme left and right portions cut off.

NOTE

- Depending on the disc type, some aspect ratios may not be available.
- If you select an aspect ratio and option which is different than the aspect ratio of your TV screen, then the picture might appear to be distorted.
- If you select the 16:9 Original, your TV may display 4:3 Pillarbox (black bars on sides of picture).

Smart Hub Screen Size

Set the Smart Hub Screen to the optimal size.

- **Size 1** : The Smart Hub screen size will be smaller than the default. You may see some black on sides of screen.
- **Size 2** : This is the default setting for Smart Hub. The product displays the normal Smart Hub screen size.
- **Size 3** : This will display a larger Smart Hub screen size. The image may be too large for your TV screen.

BD Wise (Samsung Products only)

BD Wise is Samsung's latest inter-connectivity feature.

When you connect a Samsung product and a Samsung TV with BD Wise to each other via HDMI, and BD Wise is on in both the product and TV, the product outputs video at the video resolution and frame rate of the BD/DVD disc.

- **Off** : The output resolution stays fixed at the resolution you set previously in the Resolution menu, regardless of the resolution of the disc. See Resolution below.
- **On** : The product outputs video at the original resolution and frame rate of the BD/DVD disc.

NOTE

- When BD Wise is on, the Resolution setting automatically defaults to BD Wise and BD Wise appears in the Resolution menu.
- If the product is connected to a device that does not support BD Wise, you can not use the BD Wise function.
- For proper operation of BD Wise, set the BD Wise menu of both the product and the TV to **On**.

Resolution

Lets you set the output resolution of the Component and HDMI video signal to Auto, 1080p, 1080i, 720p, 480p, or 480i. The number indicates the number of lines of video per frame. The i and p indicate interlaced and progressive scan, respectively. The more lines, the higher the quality.

- **Auto** : Automatically sets the output resolution to the connected TV's maximum resolution.
- **BD Wise** : Automatically sets the resolution to the resolution of the BD/DVD disc if you have connected the product via HDMI to a TV with the BD Wise feature. (The BD Wise menu item appears only if BD Wise is set to **On**. See BD Wise above.)
- **1080p** : Outputs 1080 lines of progressive video. (HDMI only)
- **1080i** : Outputs 1080 lines of interlaced video.
- **720p** : Outputs 720 lines of progressive video.
- **480p** : Outputs 480 lines of progressive video.

Setup

Resolution according to the output mode

• Blu-ray Disc/E-contents/Digital Contents playback

Setup \ Output	HDMI / connected			HDMI / not connected		
	HDMI Mode		Component/ VIDEO Mode	Component Mode		VIDEO Mode
	Blu-ray Disc	E-contents/ Digital contents		Blu-ray Disc	E-contents/ Digital contents	
BD Wise	Resolution of Blu-ray Disc	1080p@60F	480i	-	-	-
Auto	Max. Resolution of TV input	Max. Resolution of TV input	480i	-	-	-
1080p@60F	1080p@60F	1080p@60F	480i	-	-	-
Movie Frame : Auto (24Fs)	1080p@24F	1080p@24F	480i	-	-	-
1080i	1080i	1080i	480i	480i	1080i	480i
720p	720p	720p	480i	480i	720p	480i
480p	480p	480p	480i	480i	480p	480i
480i	-	-	-	480i	480i	480i

• DVD playback

Setup \ Output	HDMI / connected		HDMI / not connected	
	HDMI Mode	Component/VIDEO Mode	Component Mode	VIDEO Mode
BD Wise	480i	480i	-	-
Auto	Max. Resolution of TV input	480i	-	-
1080p@60F	1080p@60F	480i	-	-
1080i	1080i	480i	480p	480i
720p	720p	480i	480p	480i
480p	480p	480i	480p	480i
480i	-	-	480i	480i

NOTE

- If the TV you connected to the product does not support Movie Frame or the resolution you selected, the message "If no pictures are shown after the selection, please wait for 15 seconds. And then, the resolution will be reverted to the previous value automatically. Would you like to make a selection?" appears.
If you select **Yes**, the TV's screen will go blank for 15 seconds, and then the resolution will revert to the previous resolution automatically.

- If the screen stays blank after you have changed the resolution, remove all discs, and then press and hold the **STOP** (■) button on the front of the product for more than 5 seconds. All settings are restored to the factory default. Follow the steps on the previous page to access each mode and select the Display Setup that your TV will support.
- When the factory default settings are restored, all stored user BD data is deleted.
- The Blu-ray Disc must have the 24 frame feature for the product to use the Movie Frame (24Fs) mode.
- If both HDMI and Component jacks are connected and you are currently viewing Component output, the resolution is fixed to 480i.

HDMI Color Format

Lets you set the color space format for HDMI output to match the capabilities of the connected device (TV, monitor, etc).

- **Auto** : Automatically sets the product to the optimum format supported by your device.
- **YCbCr (4:4:4)** : If your TV supports the YCbCr color space via HDMI, select this to output the normal YCbCr color gamut.
- **RGB (Standard)** : Select RGB (Standard) to output the normal RGB color gamut.
- **RGB (Enhanced)** : If you have connected the product to a DVI display device such as a monitor, select RGB (Enhanced) to output the enhanced RGB color gamut.

Movie Frame (24 Fs)

Setting the Movie Frame (24Fs) feature to **Auto** allows you to adjust the product's HDMI output to 24 frames per second for improved picture quality. You can enjoy the Movie Frame (24Fs) feature only on a TV supporting this frame rate. You can select Movie Frame only when the product is in the HDMI 1080i or 1080p output resolution modes.

- **Auto** : Movie Frame (24Fs) functions work.
- **Off** : Movie Frame (24Fs) functions are off.

HDMI Deep Color

Lets you output video from the HDMI OUT jack with Deep Color. Deep Color provides more accurate color reproduction with greater color depth.

- **Auto** : The product outputs video with Deep Color to a connected TV which supports HDMI Deep Color.
- **Off** : The picture is output without Deep Color.

Still Mode

Lets you set the type of picture the product displays when you pause DVD playback.

- **Auto** : Automatically shows the best still picture depending on the content.
- **Frame** : Select when pausing a scene with a little action.
- **Field** : Select when pausing a scene with a lot of action.

Progressive Mode

Lets you improve picture quality when viewing DVDs.

- **Auto** : Select to have the product automatically select the best picture quality for the DVD you're watching.
- **Video** : Select for the best picture quality from concert or TV show DVDs.

Video Conversion

You can convert the incoming composite or component video signal into a maximum quality of the connected TV if you output the converted video via HDMI OUT.

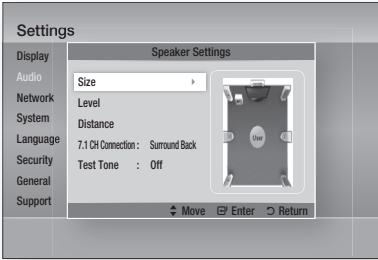
- **Auto** : Converts the incoming video signal before outputting in the maximum resolution that the connected TV supports.
- **Bypass** : Converts the input video source into the digital counterpart without changing the resolution.

NOTE

- A income signal supports only 480i.

Audio

Speaker Settings



- **Large** : Select when using large speakers. You can listen to full range sound.
- **Small** : Select this when using small speakers.
- **None** : Select when no speaker is used.
- **On (subwoofer)** : Select when using the subwoofer speaker.
- **Off (subwoofer)** : Select when not using the subwoofer speaker.

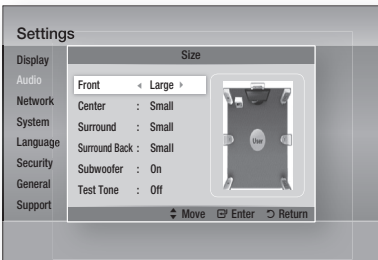
NOTE

- You can also use the **▲, ▼, <, >, ENTER** buttons on the front of your Receiver.
- When the Surround Speaker in set to None, you can not select Surround Back speaker.

Size

Signal outputs and frequency response from the speaker will be adjusted according to your speaker configuration and whether certain speakers are used or not.

- Each time you press the **▲ ▼** buttons, **Front → Center → Surround → Surround Back → Subwoofer** will be selected in turn.

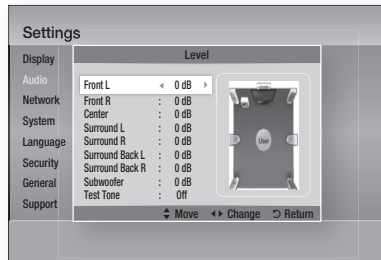


Level

You can adjust the balance and level for each speaker.

Adjusting Front/Center/Surround/Surround Back/Subwoofer Speaker Level

- You can adjust the volume level in steps from -10dB ~ +10dB.
- The sound gets louder as you move closer to +10dB and quieter as you get closer to -10dB.



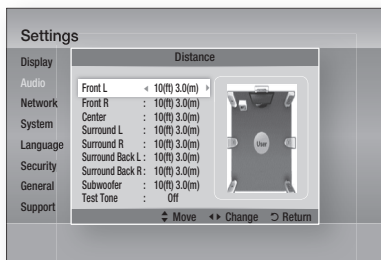
Setting the Speaker

Speaker	Possible Settings	Default Setting
Front	Large, Small	Small
Center	Large, Small, None	Small
Surround	Large, Small, None	Small
Surround Back	Large, Small, None	Small
Subwoofer	On, Off	On

Distance

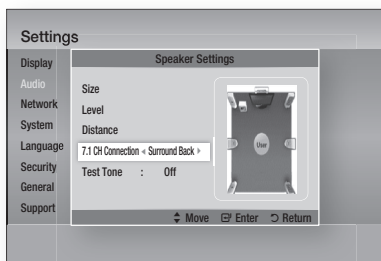
If you cannot place the speakers at equal distances from the listening position, you can adjust the delay time of the audio signals from the front, center, surround, surround back and subwoofer speakers.

- You can set the Speaker Distance between 1ft (0.3m) and 30ft (9.0m).



7.1 CH Connection

Settings for the surround back speaker differ depending on the connection method and installation site of the speaker to be connected. You must configure the surround back settings according to the connected speaker before you listen to music properly.



- Surround Back** : Select this if you want to install the surround back speaker in the default settings. With this setting, you can enable the Dolby Pro Logic IIx mode.
- PL IIz** : Select this if you want to install the surround back speaker in the top front corner. With this setting, you can enable the Dolby Pro Logic IIz mode.

- Bi-AMP** : Select this if you want to connect the Bi-Amp compliant speaker to the surround back port. With this setting, you can enable the Bi-Amp feature.

NOTE

- Depending on the surround back settings, the surround back speaker or front height speaker menus may not be activated or may differ in the speaker menu: Size, Level, Distance.
- Depending on your setting, you may not use different features simultaneously. If you set Surround Back, for instance, you cannot use the following features: PL IIz and Bi-AMP.

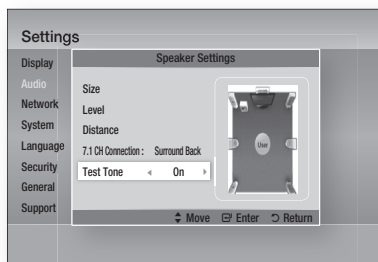
Test Tone

Use the Test Tone feature to check the speaker connections.

Press the ◀, ▶ buttons to select **On**.

- A test tone will be sent to **Front L → Center → Front R → Surround R → Surround Back R → Surround Back L → Surround L → Subwoofer** in order so you can make sure the speakers are set up correctly.

To stop the test tone, press the ◀, ▶ buttons to select **Off**.



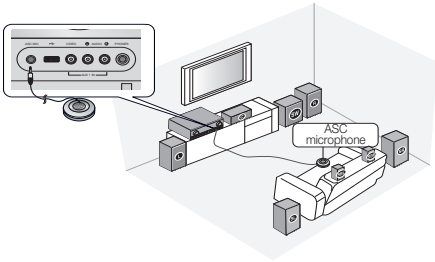
NOTE

- When HDMI Audio is ON (audio is produced through TV speakers), the Test Tone function is not available.

Setup

Musical Room Calibration

By setting the Musical Room Calibration (MRC) function just once when you relocate or install the product, you can have the product automatically recognize the distance between speakers, levels between channels, and frequency characteristics to create a 7.1-channel sound field optimized for your environment.



Musical Room Calibration Mode

You will hear either the Musical Room Calibration mode or the User Speaker Settings.

- **Off:** You will hear sound in the Speaker Setting value.
- **On:** You will hear sound in the Musical Room Calibration mode.

Measurement

1. Plug the ASC microphone into the **ASC IN** jack.
2. Place the ASC microphone at the listening position.
 - Musical Room Calibration will be automatically set up in the following sequence:
Front L → Center → Front R → Surround R → Surround Back R → Surround Back L → Surround L → Subwoofer
 - Press the **RETURN** button to cancel the Musical Room Calibration Setting.

NOTE

- Running the Musical Room Calibration function takes about 3 minutes.
- Make sure there is no disc in the product when you run the Musical Room Calibration function.
- If the ASC microphone is disconnected during the Musical Room Calibration setup, the setup will be canceled.
- If the product is connected to external devices or other components (such as an iPod, AUX, D.IN), the Musical Room Calibration Setup may not work properly.
- Noise may result in incorrect measurements. Ensure the room is quiet when you run the Musical Room Calibration.
- Place the microphone in the main listening position.
- Make sure there are no objects between the speakers and microphone.
- Note that the test tones of the speakers may be loud.
- Do not place the microphone behind furniture or too close to the wall. Otherwise, it can produce an incorrect test result.

Surround

Set surround sound effect-related functions.

Surround Mode and Input Signal Chart

o = active, – = inactive

Input Signal	Surround Mode	Output Channel					Display Information	
		L/R	C	SL SR	SBL SBR	SUBW	Signal Format	Channel Status
Dolby Digital	Dolby Digital	o	o	o	–	o	Digital + Dolby Digital	L, C, R, SL, SR, SBL, SW
Dolby Digital EX	Dolby Digital EX	o	o	o	o	o	Digital +Dolby Digital EX	L, C, R, SL, SR, SBL, SBR, SW
	Dolby Digital + ProLogic IIx	o	o	o	o	o	Digital + Dolby Digital + ProLogic IIx	L, C, R, SL, SR, SBL, SBR, SW
	Dolby Digital + ProLogic Iiz	o	o	o	o (Height)	o	Digital + Dolby Digital + ProLogic Iiz	L, C, R, SL, SR, H, SW
Dolby Digital Plus	Dolby Digital Plus	o	o	o	o	o	Digital + Dolby Digital Plus	L, C, R, SL, SR, SBL, SBR, SW
Dolby TrueHD	Dolby TrueHD	o	o	o	o	o	Dolby TrueHD	L, C, R, SL, SR, SBL, SBR, SW
DTS (5.1-ch)	DTS Surround	o	o	o	–	o	DTS	L, C, R, SL, SR, SBL, SW
DTS-ES	DTS Digital + ProLogic IIx	o	o	o	o	o	DTS + ProLogic IIx	L, C, R, SL, SR, SBL, SBR, SW
DTS 96/24	DTS Digital + ProLogic Iiz	o	o	o	o (Height)	o	DTS + ProLogic Iiz	L, C, R, SL, SR, SBL, SBR, SW
	DTS-ES	o	o	o	o	o	DTS ES	L, C, R, SL, SR, SBL, SBR, SW
	DTS 96/24	o	o	o	–	o	DTS 96/24	L, C, R, SL, SR, SBL, SW
DTS-HD	DTS-HD Master Audio	o	o	o	o	o	DTS-HD MSTR	L, C, R, SL, SR, SBL, SBR, SW
	DTS-HD High Resolution	o	o	o	o	o	DTS-HD	L, C, R, SL, SR, SBL, SBR, SW
LPCM Multi-Channel	Multi-Channel	o	o	o	o	o	Digital + LPCM	L, C, R, SL, SR, SBL, SBR, SW
	Multi-Channel	o	o	o	o (Height)	o	Digital + LPCM	L, C, R, SL, SR, H, SW
2-ch PCM	Stereo	o	–	–	–	o	Digital + LPCM	L, R, SW
	ProLogic IIx	o	o	o	o	o	Digital + LPCM + Dolby Digital + ProLogic IIx	L, C, R, SL, SR, SBL, SBR, SW
	ProLogic Iiz	o	o	o	o (Height)	o	Digital + LPCM + Dolby Digital + ProLogic Iiz	L, C, R, SL, SR, H, SW
	NEO:6	o	o	o	o	o	Digital + LPCM + DTS + NEO:6	L, C, R, SL, SR, SBL, SBR, SW
	SFE	o	o	o	o	o	Digital + LPCM + LIVE SURR	L, C, R, SL, SR, SBL, SBR, SW
Analog Multi-Channel	Multi-Channel	o	o	o	o	o	Analog	L, C, R, SL, SR, SBL, SBR, SW
	Multi-Channel	o	o	o	o (Height)	o	Analog	L, C, R, SL, SR, H, SW
Analog 2-ch	Stereo	o	–	–	–	o	Analog	L, R, SW
	ProLogic IIx	o	o	o	o	o	Analog + Dolby Digital + ProLogic IIx	L, C, R, SL, SR, SBL, SBR, SW
	ProLogic Iiz	o	o	o	o (Height)	o	Analog + Dolby Digital + ProLogic Iiz	L, C, R, SL, SR, H, SW
	NEO:6	o	o	o	o	o	Analog + DTS NEO:6	L, C, R, SL, SR, SBL, SBR, SW
	SFE	o	o	o	o	o	Analog + LIVE SURR	L, C, R, SL, SR, SBL, SBR, SW

L/R : front speaker (left/right)

SL/SR : surround speaker (left/right)

SW : subwoofer

C : center speaker

SBL/SBR : surround back speaker (left/right)

Setup

NOTE

- Channel status displays are dependent on the speaker configuration.
- SFE mode works with 2-ch signals.
- If Dolby Pro Logic IIz is set to On, Dolby true HD, Dolby plus, DTS-HD Master Audio, SFE and NEO:6 will be output 5.1 channel.

DPL IIx

- **Panorama** : You can set it On or Off.
(This mode extends the front stereo image to include the surround speakers for an exciting "wraparound" effect with side wall imaging.)
- **Dimension** : You can set from -7 to +7.
(Incrementally adjusts the sound field (DSP) from the front or surround.)
- **Center Width** : You can set from 0 to 7.
(This sets the width of the center sound image. The higher the setting, the less sound comes from the center speaker.)

Extended Surround (EX/ES)

When surround back speakers are connected, you can listen to 6.1 or 7.1 multi-channel sound using the built-in Dolby Digital Surround EX or DTS ES decoder. This function works when a Dolby Digital or DTS source is input, and does not work with L.PCM and Dolby Digital 2 channel sources.

- **Auto** : If the unit receives an audio signal that it can recognize, it will select an optimal decoder for playback in 6.1/7.1 channels.
If the amplifier does not recognize the audio signal, it will not play in 6.1/7.1 channel automatically.

- **Off** : Dolby Digital Surround EX / DTS ES decoder will not be used for playback.
- **On** : Dolby Digital or DTS signal will be played in 6.1 / 7.1 channel using Dolby Digital Surround EX / DTS ES decoder.

NOTE

- You cannot use DTS-ES without surround back speakers connected.

DTS Neo:6 Center Image

You can play back 2 channel sound over 6.1 channels when enjoying music or a movie.

- You can set Center Image from 0 to 5.
This parameter adjusts the height of the center image through the front and center speakers. "0" is the lowest while "5" is the highest.

NOTE

- NEO:6 mode cannot be used with Dolby Digital, Dolly Digital Plus, Dolby True HD, DTS, DTS-HD Master Audio.
- Pro Logic works only for PCM audio signals with sampling frequencies of 32KHz, 44KHz or 48KHz.

Crossover Frequency

Select the crossover frequency for the best bass response in your speakers.

- You can set frequencies 60, 80, 100, 120, 150, 180 or 200(Hz).

MP3 Enhancer

This also helps enhance your sound experience (ex. mp3 music). You can upscale your MP3 level sound (24 kHz, 8bit) to CD level sound (44.1 kHz, 16bit).

Smart Volume

This will regulate and stabilize the volume level against a drastic volume change when changing channels or during a scene transition.

Dual Mono

Dual mono programs have two independent mono channels.

You can use this function when dual mono programs are played.

When you use this function, select audio channels CH1, CH2 or both Channel.

- **Ch 1** : Channel 1 is heard only.
- **Ch 2** : Channel 2 is heard only.
- **Both Channels** : Both channels are heard from front speakers.

HDMI Audio

The audio signals transmitted over the HDMI Cable can be toggled On/Off.

- **Off** : Video is transmitted over the HDMI connection cable only, and audio is output through your product speakers only.
- **On** : Both video and audio signals are transmitted over the HDMI connection cable, and audio is output through your TV speakers only.

NOTE

- HDMI Audio is automatically down-mixed to 2ch for TV speakers.

Audio Return Channel

You can enjoy TV sound from the Home Theater speakers by using just one HDMI cable.

- **Auto** : Listen to TV sound from the Home Theater speakers if your TV is compatible with the Audio Return Channel function.
- **Off** : Turn the Audio Return Channel function off.

NOTE

- When Anynet+ (HDMI-CEC) is Off, the Audio Return Channel function is not available.
- Using an ARC (Audio Return Channel) uncertified HDMI cable may cause a problem in compatibility.
- ARC function is only available if an ARC-compliant TV is connected.

Digital Output

You set the Digital Output to match the capabilities of the AV device you've connected to the product :

- **PCM** : Choose if you have connected an HDMI supported AV device.
- **Bitstream (Unprocessed)** : Select if you have connected an HDMI supported AV device with Dolby TrueHD and DTS-HD Master Audio decoding capabilities.
- **Bitstream (Re-encoded DTS)** : Choose if you have connected an AV device using a Digital Optical input that can decode DTS.
- **Bitstream (Re-encoded Dolby D)** : Select if you don't have an HDMI supported AV device, but have an AV device with Dolby Digital decoding capabilities.

For more details, please refer to the digital output selection table. (See page 46)

NOTE

- Digital Output can be activated when HDMI Audio is ON.
- Be sure to select the correct Digital Output or you will hear no sound or just loud noise.
- If the HDMI device (AV device, TV) is not compatible with compressed formats (Dolby digital, DTS), the audio signal outputs as PCM.
- Regular DVDs do not have BONUSVIEW audio and Navigation Sound Effects.
- Some Blu-ray Discs do not have BONUSVIEW audio and Navigation Sound Effects.
- This Digital Output setup does not effect the analog (L/R) audio or HDMI audio output to your TV.
It effects the optical and HDMI audio output when your product is connected to an AV device.
- If you play MPEG audio soundtracks, the audio signal outputs as PCM regardless of your Digital Output selections (PCM or Bitstream).

Setup

Digital Output Selection

Setup		PCM	Bitstream (Unprocessed)	Bitstream (Re-encoded DTS)	Bitstream (Re-encoded Dolby D)
Connection		HDMI supported AV device	HDMI supported AV device	HDMI supported AV device	HDMI supported AV device
Audio Stream on Blu-ray Disc	PCM	Up to 7.1ch	PCM	DTS re-encoded	Re-encoded Dolby Digital *
	Dolby Digital	Up to 7.1ch	Dolby Digital	DTS re-encoded	Re-encoded Dolby Digital *
	Dolby Digital Plus	Up to 7.1ch	Dolby Digital Plus	DTS re-encoded	Re-encoded Dolby Digital *
	Dolby TrueHD	Up to 7.1ch	Dolby TrueHD	DTS re-encoded	Re-encoded Dolby Digital *
	DTS	Up to 6.1ch	DTS	DTS re-encoded	Re-encoded Dolby Digital *
	DTS-HD HRA	Up to 7.1ch	DTS-HD HRA	DTS re-encoded	Re-encoded Dolby Digital *
	DTS-HD MA	Up to 7.1ch	DTS-HD MA	DTS re-encoded	Re-encoded Dolby Digital *
Audio Stream on DVD	PCM	PCM 2ch	PCM 2ch	PCM 2ch	PCM 2ch
	Dolby Digital	Up to 5.1ch	Dolby Digital	Dolby Digital	Dolby Digital
	DTS	Up to 6.1ch	DTS	DTS	DTS
Definition for Blu-ray Disc	Any	Decodes the main feature audio and BONUSVIEW audio stream together into PCM audio and adds Navigation Sound Effects.	Outputs only the main feature audio stream so that your AV device can decode the audio bitstream. You will not hear BONUSVIEW audio or Navigation Sound Effects.	Decodes the main feature audio and BONUSVIEW audio stream together into PCM audio and adds Navigation Sound Effects, then re-encodes the PCM audio into DTS bitstream.	Decodes the main feature audio and BONUSVIEW audio stream together into PCM audio and adds Navigation Sound Effects, then re-encodes the PCM audio into Dolby digital bitstream or PCM.

* If the Source Stream is 2ch, "Re-encoded Dolby D" Setting are not applied. Output will be LPCM 2ch.

Blu-ray Discs may include three audio streams :

- Main Feature Audio : The audio soundtrack of the main feature.
- BONUSVIEW audio : An additional soundtrack such as the director or actor's commentary.

- Navigation Sound Effects : When you choose some menu navigation, Navigation Sound Effects may sound. Navigation Sound Effects are different on each Blu-ray Disc.

Dynamic Range Control

You can listen at low volumes, but still hear dialog clearly. This is only active if your product detects a Dolby Digital signal.

- **Auto** : The Dynamic Range Control will be set automatically based on the information provided by the Dolby TrueHD Soundtrack.
- **Minimum** : This slightly compresses the dynamic range.
- **Standard** : This is standard setting for regulate home use.
- **Maximum (Night Mode)** : This greatly compresses the dynamic range and lets you view movies late at night at low volumes.

HDMI Auto Sync

The Receiver can be set to automatically correct any delay between the video and the audio, based on the data from the connected TV.

- **Auto** : Automatically adjust output timing of audio and video if your TV supports and automatic lipsync function.
- **Off** : HDMI Auto Sync is disabled.

Audio Sync

Video may fall out of sync with the audio when the product is connected to a digital TV. If this occurs, adjust the audio delay time to match the audio to the video.

- You can set the audio delay time between 0 msec and 240 msec. Set it to the optimal status.

Network

Before you begin, contact your ISP to find out if your IP address is static or dynamic. If it is dynamic, and you are using a wired or wireless connection, we recommend using the Auto procedures. If you are using a wireless connection and your router has the capability, you can use WPS(PBC) or One Foot Connection.

If your IP address is static, you must use the manual set up procedure for both wired and wireless connections.

Network Settings

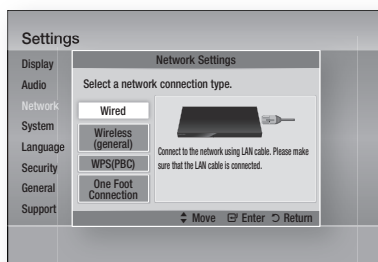
To begin setting up the network connection for your product, follow these steps:

1. In the Home menu, press the ◀▶ buttons to select **Settings**, and then press the **ENTER** button.
2. Press the ▲▼ buttons to select **Network**, and then press the **ENTER** button.
3. Press the ▲▼ buttons to select **Network Settings**, and then press the **ENTER** button.
4. Press the ▲▼ buttons to select **Wired**, **Wireless (General)**, **WPS(PBC)** or **One Foot Connection**, and then press the **ENTER** button.
5. If you have a wired network, go to Wired Network below. If you have a wireless network, go to Wireless Network on pages 48~50.

Wired Network

Setting Up a Wired Connection - Auto

1. Press the ▲▼ buttons to select **Wired**.



2. Press the **ENTER** button. The Network Status screen appears. The product connects to the network after the network connection is verified.

Setting Up a Wired Connection - Manual

If you have a static IP address or the Auto Setting does not work, you'll need to set the Network Settings values manually.

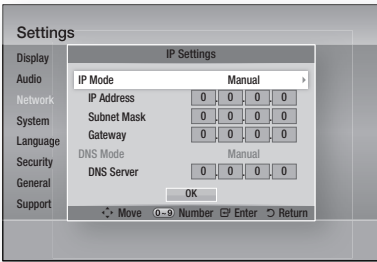
Setup

To view your Network Settings values on most Windows computers, follow these steps:

1. Right click the Network icon on the bottom right of the Windows desktop.
2. In the pop-up menu, click Status.
3. On the dialog that appears, click the Support tab.
4. On the Support tab, click the Details button. The Network settings are displayed.

To enter the Network settings into your product, follow these steps:

1. Press the ▲▼ buttons to select **Wired**, and then press the **ENTER** button.
2. Press the ◀▶ buttons to select **IP Settings**, and then press the **ENTER** button.



3. Press the **ENTER** button to select **IP Mode**.
4. Press the ▲▼ buttons to select **Manual**, and then press the **ENTER** button.
5. Press the ▼ button to go to the first entry field (IP Address).
6. Use the number buttons on your remote to enter numbers.
7. When done with each field, press the ▶ button to move successively to the next field. You can also use the other arrow buttons to move up, down, and back.
8. Enter the **IP Address**, **Subnet Mask**, and **Gateway** values.
9. Press the ▼ button to go to **DNS Mode**.
10. Press the ▼ button to go to the first DNS entry field. Enter the numbers as above.

11. Press the **ENTER** button to select **OK**. The Network Status screen appears. The product connects to the network after the network connection is verified.

Wireless Network

You can setup a wireless network three ways:

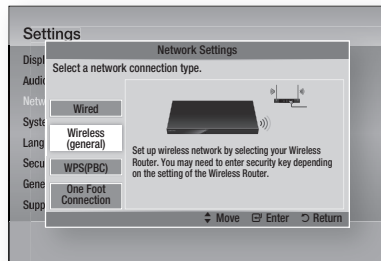
- Wireless (General)
- Using WPS(PBC).
- One Foot Connection

Wireless (General) includes both Automatic and Manual setup procedures.

Setting Up the Wireless Network Connection - Auto

Most wireless networks have an optional security system that requires devices that access the network to transmit an encrypted security code called an Access or Security Key. The Security Key is based on a Pass Phrase, typically a word or a series of letters and numbers of a specified length you were asked to enter when you set up security for your wireless network. If you use this method of setting up the network connection, and have a Security Key for your wireless network, you will have to enter the Pass Phrase during the Auto setup process.

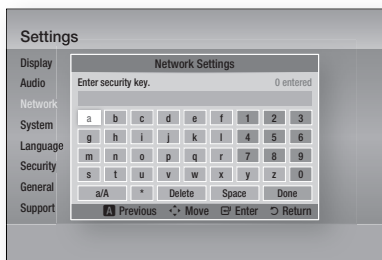
1. Press the ▲▼ buttons to select **Wireless (General)**.



2. Press the **ENTER** button. When done, it displays a list of the available networks.
3. Press the ▲▼ buttons to select the desired network, and then press the **ENTER** button. The Security screen appears.

- On the Security screen, enter your network's Pass Phrase. Enter numbers directly using your remote control.

To select a letter, press the ▲▼◀▶ buttons to move the cursor, then press the **ENTER** button.



NOTE

- You should be able to find the Pass Phrase on one of the set up screens you used to set up your router or modem.

- When done, press the ▲▼◀▶ buttons to move the cursor to **Done**, and then press the **ENTER** button.

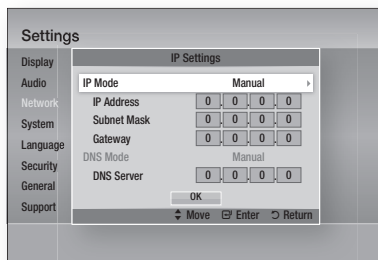
The Network Status screen appears. The product connects to the network after the network connection is verified.

Setting Up the Wireless Network Connection - Manual

If the Auto Setting does not work, you need to enter the Network settings values manually.

To view the Network Settings values on most Windows computers, follow these steps:

- Right click the Network icon on the bottom right of the screen.
 - In the pop-up menu, click Status.
 - On the dialog that appears, click the Support tab.
 - On the Support tab, click the Details button. The Network settings are displayed.
- To enter the Network settings into your product, follow these steps:
- Follow Steps 1 through 5 in the 'Setting Up the Wireless Network Connection - Auto' procedure.
 - When done, press the ▲▼◀▶ buttons to move the cursor to **Done**, and then press the **ENTER** button. The Network Status screen appears.



- On the Network Status screen, select Cancel, and then press Enter.
- Press the ◀▶ buttons to select **IP Settings**, and then press the **ENTER** button.
- Press the **ENTER** button to select **IP Mode**.
- Press the ▲▼ buttons to select **Manual**, and then press the **ENTER** button.
- Press the ▼ button to go to the first entry field (IP Address).
- Use the number buttons to enter numbers.
- When done with each field, press the ▶ button to move successively to the next field. You can also use the other arrow buttons to move up, down, and back.
- Enter the **IP Address**, **Subnet Mask**, and **Gateway** values.
- Press the ▼ to go to **DNS Mode**.
- Press the ▼ button to go to the first DNS entry field. Enter the numbers as above.
- The Network Status screen appears. The product connects to the network after the network connection is verified.

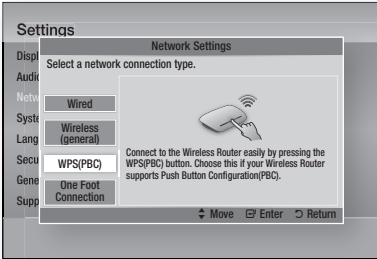
Setup

WPS(PBC)

The easiest way to set up the wireless network connection is using the WPS(PBC) function or the One Foot Connection function.

If your wireless router has a **WPS(PBC)** button, follow these steps:

1. Press the ▲▼ buttons to select **WPS(PBC)**.

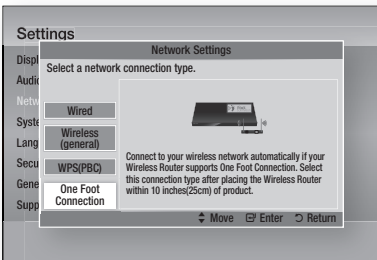


2. Press the **ENTER** button.
3. Press the **WPS(PBC)** button on your router within two minutes. Your product displays the Network Selection Screen, and automatically acquires all the network settings values it needs and connects to your network. When it is done, it displays an **OK** button. Press the **ENTER** button on your remote.

One Foot Connection

You can set up the wireless connection automatically if you have a Samsung Wireless Router which supports One Foot Connection. To connect using the One Foot Connection function, follow these steps:

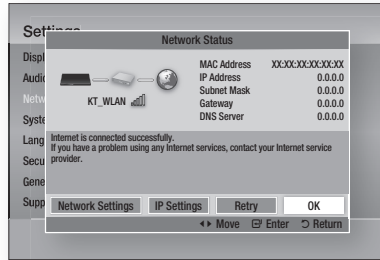
1. Press the ▲▼ buttons to select **One Foot Connection**.



2. Press the **ENTER** button.
3. Place the Samsung Wireless Router within 25 cm (10 inches) of your product to connect.
4. Wait until the connection is automatically established.

Network Status

Check whether a connection to the network and the Internet have been established.



BD-LIVE Internet Connection

Set to allow or prohibit an Internet connection when you use the BD-LIVE service.

- **Allow (All)** : The Internet connection is allowed for all BD-LIVE contents.
- **Allow (Valid Only)** : The Internet connection is allowed only for BD-LIVE contents containing a valid certificate.
- **Prohibit** : No Internet connection is allowed for any BD-LIVE content.

NOTE

- **What is a valid certificate?**
When the product uses BD-LIVE to send the disc data and a request to the server to certify the disc, the server uses the transmitted data to check if the disc is valid and sends the certificate back to the product.
- The Internet connection may be restricted while you are using BD-LIVE contents.

System

Initial Settings

By using the Initial Settings function, you can set the language, Network Settings, etc. For more information about the Initial Settings function, refer to the Initial Settings section of this user manual. (See page 34)

Anynet+ (HDMI-CEC)

Anynet+ is a convenient function that offers linked operations with other Samsung products that have the Anynet+ feature.

To operate this function, connect this product to a Samsung TV with an HDMI cable.

With Anynet+ on, you can operate this product using a Samsung TV remote control and start disc playback simply by pressing the **PLAY** (▶) button on the TV's remote control.

For more information, please see the TV user manual.

- **Off** : Anynet+ functions will not work.
- **On** : Anynet+ functions will work.

NOTE

- This function is not available if the HDMI cable does not support CEC.
- If your Samsung TV has an Anynet+ logo, then it supports the Anynet+ function.
- Depending on your TV, certain HDMI output resolutions may not work. Please refer to the user manual of your TV.

BD Data Management

Lets you manage the downloaded contents you accessed through a Blu-ray Disc that supports the BD-LIVE service and stored on memory device.

You can check the device's information including the storage size, delete the BD data, or change the memory device.

BD Data Management Screen Information :

- **Current Device** : Display the selected device.
- **Total Size** : Total memory size of the device.

- **Available Size** : Available memory in the device.
- **Delete BD Data** : Delete all BD data in the storage.
- **Select Device** : Change location of desired memory to store BD data.

NOTE

- In the external memory mode, disc playback may be stopped if you disconnect the USB device in the middle of playback.
- Only those USB devices formatted in the FAT file system (DOS 8.3 volume label) are supported. We recommend you use USB devices that support USB 2.0 protocol with 4 MB/sec or faster read/write speed.
- The Resume Play function may not work after you format the storage device.
- The total memory available to BD Data Management may differ, depending on the conditions.

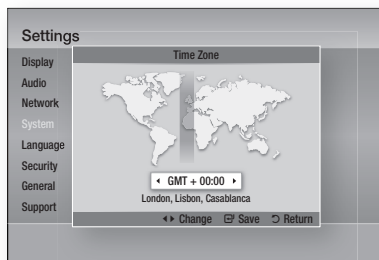
Input Selection

Set the default port of DIGITAL AUDIO IN for each sources.

- **SAT** : Select the desired input port for SAT source.
- **GAME** : Select the desired input port for GAME source.
- **CD** : Select the desired input port for CD source.

Time Zone

You can specify the time zone that is applicable to your area.



Setup

DivX® Video On Demand

Shows the registration code authorized for the product. If you connect to the DivX web site and register using that code, you can download the VOD registration file. If you activate the VOD registration using My Contents, the registration is completed.

NOTE

- For more information about DivX(R) VOD, visit "<http://vod.divx.com>".

Reset

All settings will revert to the default except for the network and Smart Hub settings. You need enter the password for this function.

NOTE

- The default password is 0000.

Language

You can select the language you prefer for the Home menu, disc menu, etc.

- **On-Screen Menu** : Select the language for the on-screen displays.
- **Disc Menu** : Select the language for the disc menu displays.
- **Audio** : Select the language for disc audio.
- **Subtitle** : Select the language for disc subtitles.

NOTE

- The selected language will only appear if it is supported on the disc.

Security

This function works in conjunction with Blu-ray and DVD discs that have been assigned an age rating or numeric rating that indicates the maturity level of the content. These numbers help you control the types of Blu-ray and/DVD discs that your family can watch.

When you access this function for the first time, the password setup screen appears. Enter a desired 4-digit password using the number buttons. (The default password is 0000.)

After you have set your password, select an age rating you want to set for the BD Parental Rating and a rating level you want to set for the DVD Parental Rating. The product will only play Blu-ray discs rated at or below the age rating and DVD discs rated below the numeric rating unless the password is entered.

Larger numbers indicate more mature content.

BD Parental Rating

This will prohibit playback of Blu-ray disc rated above Parental Rating.

DVD Parental Rating

Prevent playback of DVD discs with specific numerical ratings unless a password is entered.

Change Password

Change the 4-digit password used to access security functions.

If you forgot your password

1. Remove the disc.
2. Press and hold the **STOP** (■) button on the front panel for 5 seconds or more.
All settings will revert to the factory settings.

NOTE

- When the factory default settings are restored, all the user stored BD data will be deleted.

General

Front Display

Change the brightness of the front panel.

- **Auto** : Dim during playback.
- **Dim** : Dim the display window.
- **Bright** : Brighten the display window.

NOTE

- You cannot change the brightness of the Power button.

Network Remote Control

The Network Remote Control function lets you control your Blu-ray Home Theater from a remote device such as a smart phone through a wireless connection to your local area network.

To use the Network Remote Control function, follow these steps:

1. Select **On** in the Network Remote Control menu.
2. Install the Samsung network remote control application to control your product on your compatible portable device.
3. Make sure your portable device and your product are connected to the same wireless router.
4. Start the application on your portable device. The application should find your product and display it on a list.
5. Select the product.
6. If this is the first time you are using the function, it will ask you to allow or deny remote control of the product. Select **Allow**.
7. Follow the instructions that came with the application to control the product.

Support

Software Upgrade

The Software Upgrade menu allows you to upgrade the product's software for performance improvements or additional services. You can upgrade in four ways:

- By Internet
- By USB
- By Disc
- By Downloaded (File)

The four methods are explained below.

By Internet

To upgrade by Internet, follow these steps:

1. Select **By Internet**, and then press the **ENTER** button. The Connecting to Server message appears.
2. If there is a download available, the Download pop-up appears with a progress bar and the download starts.
3. When the download is complete, the Upgrade Query window appears with three choices: Upgrade Now, Upgrade Later, or Don't Upgrade.
4. If you select Upgrade Now, the product upgrades the software, turns off, and then turns on automatically.
5. If you do not make a selection in one minute or select Upgrade Later, the product stores the new upgrade software. You can upgrade the software later using the By Downloaded function.
6. If you select Don't Upgrade, the product cancels the upgrade.

NOTE

- Your product must be connected to the Internet to use the By Internet function.
- The upgrade is complete when the product turns off, and then turns on again by itself.
- Never turn the product off or back on manually during the update process.
- Samsung Electronics shall take no legal responsibility for product malfunction caused by an unstable Internet connection or consumer negligence during a software upgrade.
- If you want to cancel the upgrade while the upgrade software is downloading, press the **ENTER** button.

Setup

By USB

To upgrade by USB, follow these steps:

1. Visit www.samsung.com/bluraysupport
2. Download the latest USB software upgrade zip archive to your computer.
3. Unzip the zip archive to your computer. You should have a single folder with the same name as the zip file.
4. Copy the folder to a USB flash drive.
5. Make sure the disc tray is empty, and then insert the USB flash drive into the USB port of the product.
6. In the product's menu, go to Settings > Support > Software Upgrade.
7. Select **By USB**.

NOTE

- The disc tray must be empty when you upgrade the software using the USB Host jack.
- When the software upgrade is done, check the software details in the software Upgrade menu.
- Do not turn off the product during the software upgrade. It may cause the product to malfunction.
- Software upgrades using the USB Host jack must be performed with a USB memory flash stick only.

By Disc

To upgrade by Disc, follow these steps:

1. Visit www.samsung.com/bluraysupport.
2. Download the latest disc software upgrade zip archive to your computer.
3. Unzip the zip archive to your computer. You should have a single folder with the same name as the zip file.
4. Write the folder onto a disc. We recommend a CD-R or DVD-R.
5. Finalize the disc before you remove it from your computer.
6. Insert the disc into product.

7. In the product's menu, go to Settings > Support > Software upgrade.
8. Select **By Disc**.

NOTE

- When the system upgrade is done, check the software details in the software Upgrade menu.
- Do not turn off the product during the Software Upgrade. It may cause the product malfunction.

By Downloaded

The By Downloaded option lets you upgrade using a file the product downloaded earlier but you decided not to install immediately or a file downloaded by the product in Standby Mode (See Download in Standby Mode below).

To upgrade By Downloaded, follow these steps:

1. If upgrade software has been downloaded, you will see the software version number to the right of By Downloaded.
2. Select By Downloaded, and then press the **ENTER** button.
3. The product displays a message asking if you want to upgrade. Select **Yes**. The product begins the upgrade.
4. When the update is complete, the product turns off automatically, and then turns on.

NOTE

- When the system upgrade is done, check the software details in the software Upgrade menu.
- Do not turn off the product during the software Upgrade. It may cause the product to malfunction.
- To use the By Downloaded function, your product must be connected to the Internet.

Download in Standby Mode

You can set the Download in Standby Mode function so that the product downloads new upgrade software when it is in Standby mode. In Standby mode, the product is off, but its Internet connection is active. This allows the product to download upgrade software automatically, when you are not using it.

To set Download in Standby Mode, follow these steps:

1. Press the ▲ ▼ buttons to select **Download** in **Standby Mode**, and then press the **ENTER** button.
2. Select **On** or **Off**.
 - **Off** : If you select **Off**, the product will notify you with a pop up message when new upgrade software is available.
 - **On** : If you select **On**, the product will automatically download new upgrade software when it is in Standby mode with the power off. If it downloads new upgrade software, the product will ask you if you want to install it when you turn the product on.

NOTE

- To use the Download in Standby Mode function, your product must be connected to the Internet.

Contact Samsung

Provides contact information for assistance with your product.

Basic Functions

Playing a Disc

Playback

1. Insert a disc into the disc slot with the disc's label facing up.
2. Press the **PLAY** (▶) button.

Playback related buttons

PLAY (▶)	Starts playback.
STOP (■)	Stops playback. <ul style="list-style-type: none"> • If you press the button once : The stop position is memorized. • If you press the button twice : The stop position is not memorized.
PAUSE ()	Pauses playback.

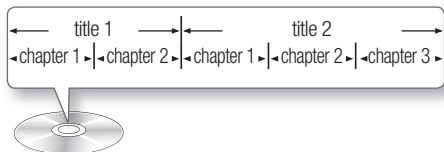
NOTE

- For some discs, the product may not memorize the stop position when you press the **STOP** (■) button.
- Video files with high bit rates of 20Mbps or more strain the product's capabilities and may stop playing during play back.

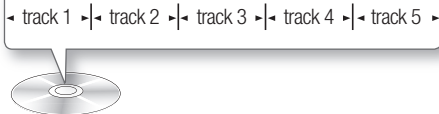
Disc Structure

The content of discs are usually divided as shown below.

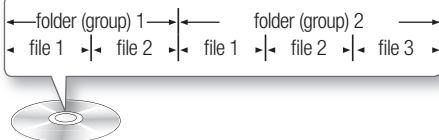
• Blu-ray Disc, DVD-VIDEO



• Audio CD (CD-DA)



• MP3, WMA, DivX, MKV and MP4



Playing a 2D video in 3D mode



You can enjoy an ordinary 2D video in 3D mode.



NOTE

- If you move to the Home or Smart Hub Home menu in 3D mode, it will switch to 2D automatically.

Using the Disc menu/Title menu/Popup menu

Using the Disc Menu



1. During playback, press the **DISC MENU** button on the remote control.
2. Press the ▲▼◀▶ buttons to make a selection, and then press the **ENTER** button.



NOTE

- Depending on the disc, the menu items may differ and this menu may not be available.

Using the Title Menu

1. During playback, press the **TITLE MENU** button on the remote control.
2. Press the **▲▼◀▶** buttons to make the desired selection, then press the **ENTER** button.



NOTE

- Depending on the disc, the menu items may differ and this menu may not be available.
- The Title Menu will only be displayed if there are at least two titles on the disc.

Using the Popup Menu

1. During playback, press the **POPUP** button on the remote control.
2. Press the **▲▼◀▶** buttons or **ENTER** button to select the desired menu.



NOTE

- Depending on the disc, the menu items may differ and this menu may not be available.

Playing the Title List

1. During playback, press the **DISC MENU** or **TITLE MENU** button.
2. Press the **▲▼** buttons to select an entry you want to play from Title List, then press the **ENTER** button.



Using the Search and Skip Functions

During playback, you can search quickly through a chapter or track, and use the skip function to jump to the next selection.

Searching for a Desired Scene



- During playback, press the **SEARCH (◀◀▶▶)** button.

Each time you press the **SEARCH (◀◀▶▶)** button, the playback speed will change as follows.

BD-ROM, BD-RE/R, DVD-RW/R, DVD+RW/+R, DVD-VIDEO	▶▶ 1 → ▶▶ 2 → ▶▶ 3 → ▶▶ 4 → ▶▶ 5 → ▶▶ 6 → ▶▶ 7 ◀◀ 1 → ◀◀ 2 → ◀◀ 3 → ◀◀ 4 → ◀◀ 5 → ◀◀ 6 → ◀◀ 7
DivX, MKV, MP4	▶▶ 1 → ▶▶ 2 → ▶▶ 3 ◀◀ 1 → ◀◀ 2 → ◀◀ 3

- To return to normal speed playback, press the **PLAY (▶)** button.

NOTE

- The Receiver does not play sound in search mode.
- If you press the **◀◀** or **▶▶** button too quickly this product might think you are just holding the button down. This will lead to improper operation. Be sure to not press these buttons too rapidly.

Skipping Chapters



- During playback, press the **SKIP (I◀◀▶▶)** button.

If you press the **SKIP (▶▶I)** button, the disc moves to the next chapter.

If you press the **SKIP (I◀◀)** button, the disc moves to the beginning of the chapter. One more press makes the disc move to the beginning of the previous chapter.

Basic Functions

Slow Motion Play/Step Motion Play

Slow Motion Play



- In **pause (II)** mode, press the **SEARCH (▶▶)** button.
If you press the **SEARCH (▶▶)** button, the playback speed is reduced to
▶▶ 1/8 ▶▶ 1/4 ▶▶ 1/2
- To return to normal speed playback, press the **PLAY (▶)** button.

NOTE

- The product does not play sound in slow mode.
- Slow motion operates only in the forward direction.

Step Motion Play



- In **pause mode**, press the **PAUSE (II)** button. Each time the **PAUSE (II)** button is pressed, a new frame will appear.
- To return to normal speed playback, press the **PLAY (▶)** button.

NOTE

- The product does not play sound in step mode.
- Step motion operates only in the forward direction.

Repeat Playback

Repeat the Title or Chapter



Repeat the disc title or chapter.

1. During playback, press the **REPEAT** button on the remote control. 
2. Press the **▲▼** buttons to select **Chapter** or **Title**, then press the **ENTER** button.




3. To return to normal play, press the **REPEAT** button again.
4. Press the **▲▼** buttons to select **Off**, then press the **ENTER** button.

NOTE

- Depending on the disc, the Repeat function may not be available.

Repeat the Section



1. During playback, press the **REPEAT** button on the remote control. 
2. Press the **▲▼** buttons to select **REPEAT A-B**.



3. Press the **ENTER** button at the point where you want repeat play to start (A).
4. Press the **ENTER** button at the point where you want repeat play to stop (B).
5. To return to normal play, press the **REPEAT** button again.
6. Press the **ENTER** button.

NOTE

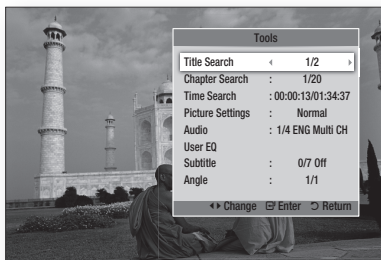
- If you set point (B) before 5 seconds has elapsed, a prohibition message will appear.
- Depending on the disc, the Repeat function may not be available.

Using the TOOLS button

During playback, you can operate the disc menu by pressing the **TOOLS** button.



• TOOLS Menu Screen



NOTE

- Depending on the disc, the TOOLS menu may differ.

Moving to a Desired Scene Directly



- During playback, press the **TOOLS** button.
- Press the **▲▼** buttons to select **Title Search**, **Chapter Search** or **Time Search**.
- Enter the desired **Title**, **Chapter** or **Playing Time** using the number buttons, then press the **ENTER** button.

Selecting the Audio Language



- During playback, press the **TOOLS** button.
- Press the **▲▼** buttons to select **Audio**.
- Press the **ENTER** button.
- Press the **▲▼** buttons to select the audio language you want.

NOTE

- The **◀▶** indicator will not be displayed on the screen if the BONUSVIEW section does not contain any BONUSVIEW audio settings.

- Information about the primary / secondary audio modes will be also displayed if the Blu-ray Disc has a BONUSVIEW section. Use the **◀▶** button to switch between primary and secondary audio modes.
- The languages available depend on the languages that are encoded on the disc. This function or certain languages may not be available.
- Some Blu-ray Discs may allow you to select either the multi-channel LPCM or Dolby digital audio soundtrack in English.

Selecting the Subtitle Language



- During playback, press the **TOOLS** button.
- Press the **▲▼** buttons to select **Subtitle**.
- Press the **◀▶** buttons to select the desired subtitle language.

NOTE

- Depending on the Blu-ray Disc / DVD, you may be able to change the subtitle language in the Disc Menu. Press the **DISC MENU** button.
- The subtitle languages available depend on the subtitle languages encoded on the disc. This function or certain languages may not be available on all Blu-ray Discs/DVDs.
- Information about the primary / secondary subtitle modes will also be displayed if the Blu-ray Disc has a BONUSVIEW section.
- This function changes both the primary and secondary subtitles at the same time.
- The total number of subtitles is the sum of the primary and secondary subtitles.

Basic Functions

Caption Function



- You must have some experience with video extraction and editing in order to use this feature properly.
- To use the caption function, save the caption file (*.smi) with the same file name as that of the DivX media file (*.avi) within the same folder.
Example. Root Samsung_007CD1.avi
 Samsung_007CD1.smi
- You can use up to 60 alphanumeric characters or 30 East Asian characters (2 byte characters such as Korean and Chinese) for the file name.

Changing the Camera Angle



When a Blu-ray Disc/DVD contains multiple angles of a particular scene, you can use the ANGLE function.

1. During playback, press the **TOOLS** button.
2. Press the **▲▼** buttons to select **Angle**.
3. Press the **◀▶** buttons to select the desired Angle.

Selecting the Picture Settings



This function enables you to adjust video quality.

1. During playback, press the **TOOLS** button.
2. Press the **▲▼** buttons to select **Picture Settings**, then press the **ENTER** button.
3. Press the **◀▶** buttons to select the desired **Mode**, then press the **ENTER** button.
 - **Dynamic** : Choose this setting to increase Sharpness.
 - **Normal** : Choose this setting for most viewing applications.
 - **Movie** : This is the best setting for watching movies.

- **User** : The user can adjust the Sharpness, Noise reduction, Contrast, Brightness, Color, Tint function respectively.

NOTE

- If the system is connected to a BD Wise-compliant TV that has set BD Wise to On, the picture setting menu will not appear.

Setting the BONUSVIEW



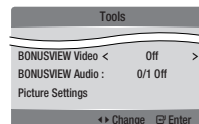
The BONUSVIEW feature allows you to view additional content (such as commentaries) in a small screen window while the movie is playing. This function is only available if the disc has the Bonusview feature.



1. During playback, press the **TOOLS** button.
2. Press the **▲▼** buttons to select **BONUSVIEW Video** or **BONUSVIEW Audio**.
3. Press the **◀▶** buttons to select the desired bonusview.

NOTE

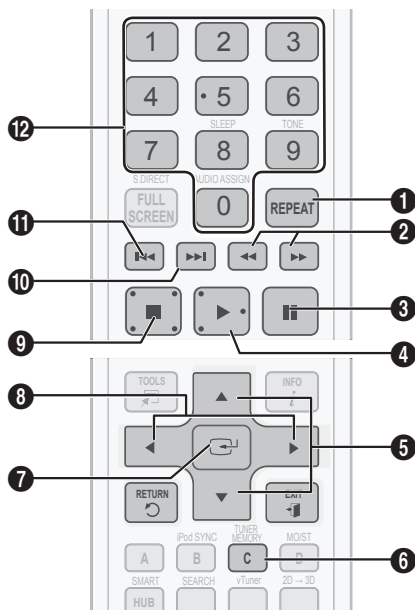
- If you switch from BONUSVIEW Video, BONUSVIEW Audio will change automatically in accordance with BONUSVIEW Video.



Listening to Music



Buttons on the Remote Control used for Music Playback



- | | |
|-----------|--|
| 7 | ENTER button : Plays the selected track. |
| 8 | ▶ button : During playback, moves to the next page in the Music List or moves to the next track in the Playlist.
◀ button : During playback, moves to the previous page in the Music List or moves to the previous track in the Playlist. |
| 9 | STOP button : Stops a track. |
| 10 | ▶▶ button : Plays the next track. |
| 11 | ◀◀ button : Plays the previous track.
If you press this button after three seconds of playback in the Playlist, the current track will be replayed from the beginning. But, if you press this button within three seconds after playback starts in the Playlist, the previous track will be played. |
| 12 | NUMBER button : During the Playlist playback, press the desired track number. The selected track will be played. |

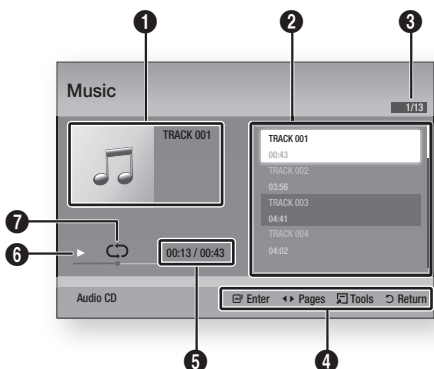
- | | |
|----------|---|
| 1 | REPEAT button : Selects the play mode in the Playlist. |
| 2 | SEARCH buttons :
Audio CD (CD-DA) - Fast Play.
MP3 - Jump Play. (10 seconds) |
| 3 | PAUSE button : Pauses playback. |
| 4 | PLAY button : Plays the currently selected track. |
| 5 | ▲▼ buttons : Selects a track in the Music List or Playlist. |
| 6 | YELLOW (C) button : Select or deselect a track in the music list. |

Basic Functions

Playing an Audio CD (CD-DA)/MP3

1. Insert an Audio CD (CD-DA) or an MP3 Disc into the disc slot.
 - For an Audio CD (CD-DA), the first track will be played automatically.
 - For an MP3 disc, press the ◀▶ buttons to select **Music**, then press the **ENTER** button.

Audio CD (CD-DA)/MP3 Screen Elements

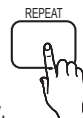


1	Displays the music information.
2	Displays the playlist.
3	Shows the current track/total tracks.
4	Displays buttons available.
5	Shows the current play time/total play time.
6	Displays the current playback status.
7	Displays the repeated playback status.

2. Press the ▲▼ buttons to select the track you want to play, and then press the **ENTER** button.

Repeat an Audio CD (CD-DA)/MP3

1. During the Playlist playback, press the **REPEAT** button.
2. Select the desired play mode by pressing the **REPEAT** button repeatedly.



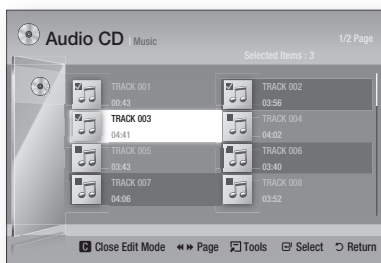
Off	Audio CD (CD-DA)/MP3	Tracks on a disc are played in the order in which they were recorded on the disc.
(↺) One Song	Audio CD (CD-DA)/MP3	Current track is repeated.
(↻) All	Audio CD (CD-DA)/MP3	All tracks are repeated.

NOTE

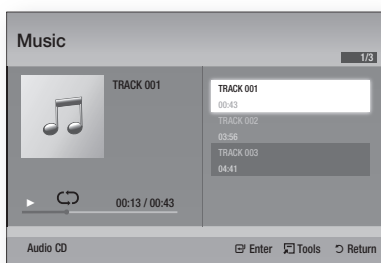
- During playback, press the **TOOLS** button and set Shuffle Mode to On. You can play the tracks in a random order.

Playlist

1. Insert an Audio CD (CD-DA) or an MP3 Disc into the disc slot.
 - For an Audio CD (CD-DA), the first track will be played automatically.
 - For an MP3 disc, press the ◀▶ buttons to select **Music**, then press the **ENTER** button.
2. To move to the Music List, press the **STOP** (■) or **RETURN** button. The Music List screen is displayed.
3. Press the **YELLOW (C)** button to switch to **Edit Mode**.
4. Press ▲▼◀▶ to select a desired track, and then press **ENTER**. Repeat this procedure to select additional tracks.
 - The selected file will be checked.
 - To cancel your selection, press **ENTER** again to uncheck the track.



5. When done, press the **TOOLS** button.
6. To play the selected track(s), select Play Selected in the **Tools** menu, and then press **ENTER**.



7. To return to the **Edit Mode**, press **STOP** or **RETURN**.
8. To exit **Edit Mode**, press the **YELLOW (C)** button.

NOTE

- You can create a playlist with up to 99 tracks on Audio CD (CD-DA).

Sound Mode

SFE (Sound Field Effect) MODE

You can set the SFE mode best suited for the type of music you are listening to.



Press the **SFE MODE** button repeatedly,

STEREO → HALL 1 → HALL 2 → J.CLUB → CHURCH → ROCK → CLASSIC → LIVE → GAME → MOVIE → CONCERT → STADIUM will be selected in turn.


Dolby Pro Logic II Mode

You can select the desired Dolby Pro Logic II audio mode.



Press the  **PL II** button.


Setting the speakers with PL IIz

1. Set the 7.1CH Connection settings to "PL IIz". (For further details, refer to page 41.)
2. Press the  **PL II** button of the remote control until "HEIGHT" or "PL OFF" appears on the display. Set to "HEIGHT" to enable sound reproduction from front center/height speakers.

HEIGHT	You can listen to a 2CH sound source in 7.1CH surround sound with all speakers active. - A specific speaker(s) may not be output depending on the input signal.
PL OFF	Select this option to listen through the front left/right speakers and the subwoofer only.

Basic Functions

Setting the speakers with DPL IIx

1. Set the 7.1CH Connection settings to "Surround Back". (For further details, refer to page 41.)
2. Press the  **PL II** button of the remote control until the desired setting is displayed. Once selected with the desired mode, sound will be heard through the surround speakers.

MOVIE	Adds realism to the movie soundtrack.
MUSIC	When listening to music, you can experience sound effects as if you are listening to the actual performance.
GAME	You can hear like game sound.
MATRIX	You will hear multi channel surround sound.
PL	You can listen to a 2CH sound source in 5.1CH surround sound with all speakers active. - A specific speaker(s) may not be output depending on the input signal.
PL OFF	PL mode will be off.

iPod SYNC

If you insert your iPod player into the iPod Dock that has already been connected to the system, you can play the video files in your iPod player through the connected TV.



If the video signal does not synchronize properly with the audio signal, press **iPod SYNC** on the remote control to correct the synchronization.

NOTE

- Before you can play the video files in the iPod player, you must connect the Audio/Video terminals of the TV to the home theater using the Composite (A/V) cable.

- The models below support audio sync settings. Press **iPod SYNC** on the remote control to change audio delay.
- Supported Models : classic/3G nano/4G nano/120GB classic/160GB Classic/5G nano

3D Sound

You can enjoy more natural and vivid surround sound with enriched tones by adjusting the depth of sound using the level options.

3D SOUND



3D SOUND OFF → **3D SOUND HIGH**
→ **3D SOUND MEDIUM** → **3D SOUND LOW**

NOTE

- 3D Sound is not available in FM mode.

Using the SHIFT button

ENTER, **▲▼◀▶**, **S.DIRECT**, **TONE**, **SLEEP** and **AUDIO ASSIGN** button will operate, after pressing the **SHIFT** button.

NOTE

- **ENTER**, **▲▼**, and **◀▶** buttons are active even when you don't press the **SHIFT** button.

TONE

After pressing the **SHIFT** button, and then Press the **TONE** button repeatedly to select the option you want. You can adjust the each value by pressing the **▲▼** buttons.

TONE



- **BASS** : -6dB ~ +6dB
- **TREBLE** : -6dB ~ +6dB
- **TONE** : ON, OFF

NOTE

- The Tone Control function can be applied to all channels except for the subwoofer.
- If it is set to Tone Off, the Tone Control function will be disabled.

AUDIO ASSIGN

You can listen to sound in 2 channel analog , Dolby Digital or DTS using this unit.



Each time you press this button, the input mode changes as follows:

For SAT function

SAT HDMI1 → SAT OPTIC1 → SAT ANALOG

For GAME function

GAME HDMI2 → GAME OPTIC2 → GAME ANALOG

For TV function

TV OPTIC3(TV ARC) → TV ANALOG

For CD function

CD COAXIAL → CD ANALOG

For AUX1 function

AUX1 HDMI3 → AUX1 ANALOG

NOTE

- You can also change the input mode by pressing the **AUDIO ASSIGN** button on the front of your Receiver.
- You can enjoy Dolby Digital or DTS if you connect the digital audio output jack of an external audio component to the optical or coaxial digital audio input jack on the main unit.
- For the TV function, the TV ARC menu will be displayed only if an ARC-compliant TV is connected.

S.DIRECT

Output the original signal as it is without applying the sound field effect or any other sound effect.



Playing back a Picture



Viewing Photo Files

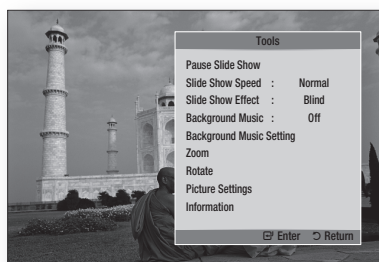
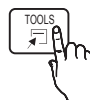
1. Connect a USB memory that contains JPEG files or insert a disc that contains JPEG files.
2. Press the ◀▶ buttons to select **My Contents**, and then press the ▲▼ buttons to select **Photos**, and then press the **ENTER** button.
3. Press the ▲▼◀▶ buttons to select the folder you want to play, and then press the **ENTER** button.
4. Press the ▲▼◀▶ buttons to select the photo you want to play, and then press the **ENTER** button.

NOTE

- You can't enlarge PG graphic in the full screen mode.

Using the TOOLS button

During the slide show playback, you can use various function by pressing the **TOOLS** button.



- **Pause Slide Show** : Select to pause the slide show.
- **Slide Show Speed** : Select to adjust the slide show speed.
- **Slide Show Effect** : Select to set the slide show effects.
- **Background Music** : Select to listen to music while viewing a slide show.

Basic Functions

- **Background Music Setting** : Select to set the background music.
- **Zoom** : Select to enlarge the current picture. (Enlarge up to 4 times)
- **Rotate** : Select to rotate the picture. (Rotate the picture either clockwise or counter clockwise.)
- **Picture Settings** : Select to adjust the picture quality.
- **Information** : Shows the picture information including the name and size, etc.

NOTE

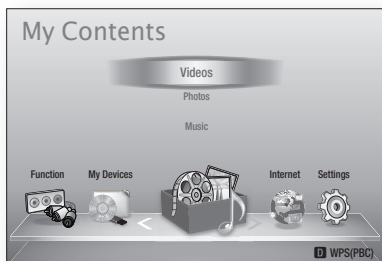
- If the system is connected to a BD Wise compliant TV that has set BD Wise to On, the Picture settings menu will not appear.
- Before you can enable the background music function, the photo file should exist in the same storage media with the music file. However, the sound quality can be affected by the bit rate of the MP3 file, the size of the photo and the encoding method.

Playing back a USB Storage Device



You can use the USB connection to play multimedia files (MP3, JPEG, DivX, etc) downloaded from the USB storage device.

1. Move to the home menu.



2. In Stop mode, connect the USB storage device to the USB port on the front panel of the product.



3. Press the **ENTER** button.
4. Press the **▲▼◀▶** buttons to select Videos, Music or Photos, and then press the **ENTER** button.
5. For playing back Video, Music or Photo files, refer to pages 56~66.

NOTE

- You must remove the USB storage device safely (by performing the “Safely Remove USB” function) to prevent possible damage to the USB memory. Press the **MENU** button to move to the home menu, select the **YELLOW (C)** button, and then press the **ENTER** button.
- If you insert a disc when playing files on a USB storage device, the device mode changes to “BD/DVD” automatically.

Listening to Radio

Using buttons on the Remote Control

1. Press the **INPUT SELECT** on the remote control to select **FM**.
2. Tune in to the desired station.
 - **Preset Tuning 1** : You must first add a desired frequency as a preset. Press the **STOP (■)** button to select **PRESET** and then press the **TUNING/CH (^v)** button to select the preset station.
 - **Manual Tuning** : Press the **STOP (■)** button to select **MANUAL** and then press the **TUNING/CH (^v)** button to tune in to a lower or higher frequency.
 - **Automatic Tuning** : Press the **STOP (■)** button to select **MANUAL** and then press and hold the **TUNING/CH (^v)** button to automatically search the band.

Presetting Stations

Example : Presetting FM 89.10 into memory

1. Press the **INPUT SELECT** on the remote control to select **FM**.
2. Press the **TUNING/CH (^v)** button to select <89.10>.
3. Press the **TUNER MEMORY** button.
 - NUMBER flashes on the display.
4. Press the **TUNER MEMORY** button again.
 - Press the **TUNER MEMORY** button before NUMBER disappears from the display.
 - NUMBER disappears from the display and the station is stored in memory.
5. To preset another station, repeat steps 2 to 4.
 - To tune in to a preset station, press the **TUNING/CH (^v)** button to select a channel.



Using buttons on the Main Unit

1. Using the **INPUT SELECT** dial on the front panel to select **FM**.
2. Tune in to the desired station.
 - **Preset Tuning 1** : You must first add a desired frequency as a preset. Press the **STOP (■)** or **TURNING MODE** button to select **PRESET** and then press the **SELECT (^v)** button to select the preset station.
 - **Manual Tuning** : Press the **STOP (■)** or **TURNING MODE** button to select **MANUAL** and then press the **SELECT (^v)** button to tune in to a lower or higher frequency.
 - **Automatic Tuning** : Press the **STOP (■)** or **TURNING MODE** button to select **MANUAL** and then press and hold the **SELECT (^v)** button to automatically search the band.

Presetting Stations

Example : Presetting FM 89.10 into memory

1. Using the **INPUT SELECT** dial on the front panel to select **FM**.
2. Press the **SELECT (^v)** button to select <89.10>.
3. Press the **MEMORY** button.
 - NUMBER flashes on the display.
4. Press the **MEMORY** button again.
 - Press the **MEMORY** button before NUMBER disappears from the display.
 - NUMBER disappears from the display and the station is stored in memory.
5. To preset another station, repeat steps 2 to 4.
 - To tune in to a preset station, press the **SELECT (^v)** button to select a channel.

Setting Mono/Stereo

Press the **MO/ST** button.

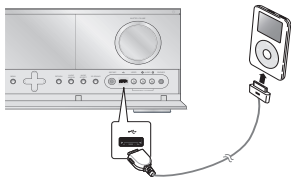
- Each time the button is pressed, the sound switches between **STEREO** and **MONO**.
- In a poor reception area, select **MONO** for a clear, interference-free broadcast.



Basic Functions

Connecting an iPod/iPhone Using the USB Cable

If the Receiver is connected to an iPod/iPhone using the provided USB cable, you can play music in iPod/iPhone through the Receiver.



Made for iPod iPhone

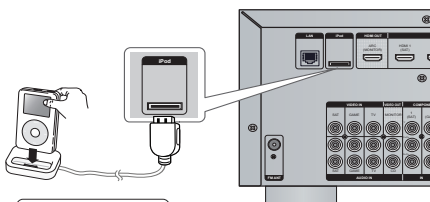
1. Connect an iPod/iPhone using the USB cable to the front USB port.
 - Your iPod is automatically turned on.
 - The “iPod” message appears on the TV screen.
2. Press the **ENTER** button.
3. Select the music file to play.
 - You can use the remote control or the product to control simple playback functions such as the **PLAY, PAUSE, STOP, ◀▶** and **◀▶** buttons. (See page 19.)

NOTE

- If you want to return to the iPod menus while the iPod player is connected using the USB cable, press **INPUT SELECT** on the remote control or using the **INPUT SELECT** dial on the front panel and select **R-IPOD**. The **FUNCTION** mode switches as follows: **BD/DVD → SAT → GAME → AUX1 → AUX2 → CD → R-IPOD → FM → TV**

Connecting an iPod/iPhone Using the Dock

If the Receiver is connected to the iPod/iPhone specific dock, you can play videos or music in an iPod/iPhone through the Receiver.



Made for iPod iPhone

Playing Music



1. Connect the iPod dock connector to the iPod Jack on the rear panel of the product.
2. Place the iPod in the supplied iPod Dock.
 - Your iPod automatically turns on.
 - The “iPod” message appears on the TV screen.
3. Press the **ENTER** button.
4. Press the **◀▲▼** buttons to select **Music**, and then press the **ENTER** button.
5. Select the music file to play.
 - You can use the remote control or product to control simple playback functions such as the **PLAY, PAUSE, STOP, ◀▶, ◀▶, ◀▶** and **REPEAT** buttons. See page 19.

NOTE

- Adjust the volume to a moderate level before you connect your iPod to the product.
- When the product is on and you connect an iPod, the product will charge the iPod's battery.
- Make sure to connect the dock connector so that the label “▲” faces upward.

Watching a Movie

You can play video files stored in the iPod player by connecting it to the product.

1. Connect the iPod dock connector to the iPod Jack on the rear panel of the product.
2. In the iPod screen, move to **Videos > Settings**, then set the TV Out option and the TV signal.
3. Place the iPod in the supplied iPod Dock.
 - The “iPod” message appears on the TV screen.
4. Press the **ENTER** button.

5. Press the ◀▶▼ buttons to select **Video**, and then press the **ENTER** button.
6. Select the video file to play.
 - You can use the remote control or the product to control simple playback functions such as the **PLAY, PAUSE, STOP, ◀◀/▶▶** and **◀◀/▶▶** buttons. (See page 19.)

NOTE



- You must have the VIDEO output (Composite) connected to your TV to view iPod video.
- If you want to play iPod video via VIDEO output, set Anynet+ (HDMI-CEC) to off.
- No screen but the playback screen will appear on the TV. View other iPod screens on the iPod player.
- If the connected iPod does not support video playback, the "Playing video files is not supported on this iPod model." message appears when you select the Video menu.
- If you want to return to the iPod menus while the iPod player is connected using the dock, press **INPUT SELECT** on the remote control or press **INPUT SELECT** on the front panel of the system and select **R-IPOD**. The **FUNCTION** mode switches as follows :
BD/DVD → SAT → GAME → AUX1 → AUX2 → CD → R-IPOD → FM → TV

iPod/iPhone Models You Can Use with This Product

- iPod touch (3rd generation)
- iPod touch (2nd generation)
- iPod touch (1st generation)
- iPod classic
- iPod with video
- iPod with dock connector
- iPod with Click Wheel
- iPod nano (5th generation)
- iPod nano (4th generation)
- iPod nano (3rd generation)
- iPod nano (2nd generation)
- iPod nano (1st generation)
- iPhone 4
- iPhone 3GS
- iPhone 3G
- iPhone

NOTE

- "Made for iPod" means that an electronic accessory has been designed to connect specifically to iPods and has been certified by the developer to meet Apple performance standards.

Made for
 iPod  iPhone
- "Made for iPhone" means that an electronic accessory has been designed to connect specifically to iPhones and has been certified by the developer to meet Apple performance standards.
- Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.
- The volume control may not operate normally with iPod and iPhone models not listed above. If you have a problem with any of the models listed above, please update the software of the iPod/iPhone to the latest version.
- Depending on the software version of the iPod, control problems may occur. This is not a malfunction of the product.
- Depending on the software version or the type of the iPod, some operations may differ. Install the latest iPod software. (recommended)
- Some actions like iPod SYNC may depend on video sources or the iPod model you have.
- You can enjoy music or videos through the BD/DVD function and enjoy music, videos or photos through the Remote iPod function. You need to use iPod Dock to enjoy videos or photos.
- Playback of applications' contents through the product is not guaranteed. We recommend playing contents downloaded to the iPod.
- If you have a problem using your iPod, please visit www.apple.com/support/ipod

Network Services

You can enjoy various network services such as Smart Hub or BD-LIVE by connecting the product to your network.

Read the following instructions before using any network service.

1. Connect the product to the network.
(see pages 32~33)
2. Configure the network settings.
(see pages 47~50)

Using Smart Hub

Using Smart Hub, you can stream movies, videos, and music from the Internet, access various for pay or free-of-charge applications and view them on your TV. Application content includes news, sports, weather forecasts, stock market quotes, maps, photos, and games.

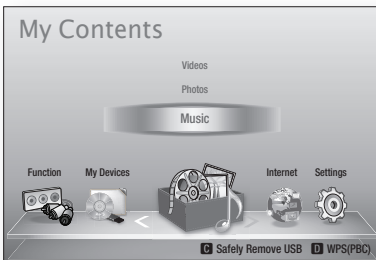
You can also start this function by pressing the **SMART HUB** button on the remote control.



Starting Smart Hub the First Time

To start Smart Hub for the first time, follow these steps :

1. Go to the Home menu.



2. Press the ◀▶ buttons to select **Internet**, and press the **ENTER** button.

3. The Smart Hub screen appears.

NOTE

- Certain applications are available only in certain countries.

4. The Terms of Service Agreement screen appears.

If you want to agree, press the ◀▶ buttons to select **Agree**, then press the **ENTER** button.

NOTE

- Screens can take a few seconds to appear.

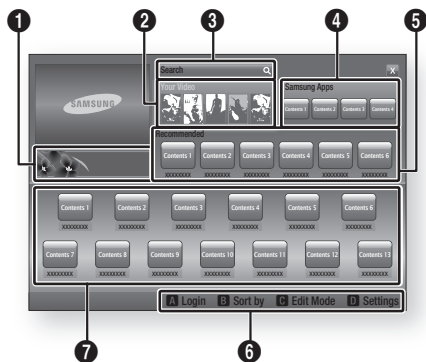
5. The Service Update screen appears and installs a number of services and applications. When done, it closes. The applications and services downloaded are displayed on the Smart Hub screen. This may take some time.

NOTE

- Smart Hub may close momentarily during the installation process.
- A number of screens may appear after installation. You can press the **ENTER** button to close them or let them close on their own.

6. To start an application, press the ▲▼◀▶ buttons to highlight a widget, then press the **ENTER** button.

Smart Hub at a Glance



1 Commercial : Displays the Smart Hub Guide, an introduction to the product, and new application introductions.

2 Your Video : Provides recommendations for videos based on your tastes.

- Lets you see movie recommendations based on your previous preferences.
- Lets you select a movie, displays a list of VOD (Video on Demand) providers that have the movie, and then lets you choose a provider for streaming. (Streaming is unavailable in some areas.)
- For instructions to use Your Video, please visit www.samsung.com.

3 Search : Provides an integrated search of your video providers and connected AllShare devices.

- Usable while using Smart Hub (except when you are watching a Blu-ray Disc).
- For easy access, use the **SEARCH** button on the remote control.
- For instructions to use search function, please visit www.samsung.com.

4 Samsung Apps : You can download various for pay or free-of-charge application services.

5 Recommended : Displays recommended contents managed by Samsung.

Navigation Help : Displays the remote control buttons you can use to navigate in Smart Hub.

- 6**
- **RED (A)** : To log in to Smart Hub.
 - **GREEN (B)** : To sort the applications.
 - **YELLOW (C)** : To edit the applications.
 - **BLUE (D)** : To change the settings of Smart Hub.

7 My Applications : Displays your personal gallery of applications which you can add to, modify, and delete.

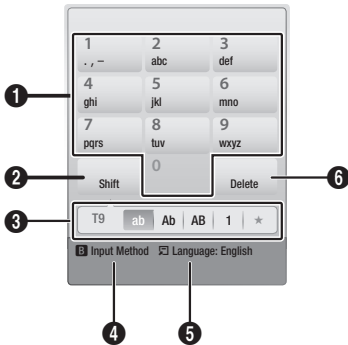
NOTE

- Samsung Electronics takes no legal responsibility for any interruption of the Smart Hub service caused by the service provider for any reason.
- The Smart Hub service downloads and processes data via the Internet so that you can enjoy the Internet contents on your TV screen. If the Internet connection is unstable, the service may be delayed or interrupted. Furthermore, the product may turn off automatically in response to conditions on the Internet. If this occurs, check the Internet connection and try again.
- Application services may be provided in English only and the contents available may vary, depending on your area.
- For more information about a Smart Hub service, visit the web site of the applicable service provider.
- The services provided are subject to change by the Smart Hub service provider without notice.
- The Smart Hub service contents may differ depending on the product's firmware version.
- For pay DivX contents with copy protection can only be played through a composite, a component or an HDMI cable.

Network Services

Using the Keypad

Through your remote, you can use the On-Screen Keypad to enter letters, numbers, and symbols.



- | | |
|---|---|
| 1 | The current keypad.
Use to enter letters, numbers, and symbols. |
| 2 | Press the FULL SCREEN button on the remote control to shift the input mode.
: ab, Ab, AB, numbers or icons. |
| 3 | Displays the current input mode. |
| 4 | Press the GREEN (B) button on the remote control to change the input method. (T9 or ABC) |
| 5 | Press the TOOLS button on the remote control to change the language. |
| 6 | Press the REPEAT button on the remote control to delete a character. |

Entering Text, Numbers and Symbols

To enter text, press the number button on the remote that corresponds to the letter you want to enter. Press the button rapidly to enter a letter that is not the first letter listed on the On-Screen keypad button. For example, if you want to enter the letter b, press the 2 button on your remote rapidly twice. To enter the first letter listed on a button, press, release, and then wait.

To move within the text, use the Arrow buttons. To delete text, move the cursor to the right of the character you want to delete, and then press the **REPEAT** button. To change case or enter numbers or punctuation, press the **FULL SCREEN** button.

Creating an Account

To establish your own, exclusive, configuration of Smart Hub, create your own Smart TV Account.

To create an account, follow these steps:

1. Press the **RED (A)** button on your remote control. The Login screen appears.



2. Press the **▲▼◀▶** buttons to select **Create Account**, and then press the **ENTER** button.
3. On the next screen, select **Smart TV ID**, and then press the **ENTER** button. An entry screen and keypad appear.
4. Use the keypad to enter your e-mail address. This will serve as your ID.

NOTE

- The keypad works like the keypad on a cell phone.

5. When done, press the **ENTER** button to select **OK**, and then press the **ENTER** button again. The Create Account screen reappears.
6. Select **Password**, and then press the **ENTER** button. The Password screen and a keypad appear.
7. Use the keypad to enter a password. The password can be any combination of letters, numbers, and symbols.

NOTE

- Press the **RED (A)** button on your remote to show or hide the password as you enter it.

8. When done, press the **ENTER** button to select **OK**, and then press the **ENTER** button again. The Create Account screen re-appears.
9. Select **Confirm password**, and then press the **ENTER** button.
10. Repeat Steps 7 and 8.
11. When the Create Account screen re-appears, select **Create Account**, and then press the **ENTER** button. The Confirmation window appears.
12. Select **OK**, and then press the **ENTER** button. The Continue to Register Service window appears.
13. Select **Connect Service**, and then press the **ENTER** button.
14. The Register Service Account Window appears. If you want to register, Select **Go Register** and then press the **ENTER** button.
 - If you have existing accounts with any of the listed providers, you can associate the provider account and the provider account password with your Smart TV Account. Registration makes it easier to access the providers web site. For registration instructions, go to Step 2 in Account Management under the Settings Menu.
 - If you don't have existing provider accounts or do not want to register existing accounts at this time, select **Register Later**, and then press the **ENTER** button. You can also let the window close on its own in about a minute.

NOTE

- You must use an e-mail address as an ID.
- You can register up to 10 User Accounts.
- You do not need an account to use Smart Hub.

Account Log In

To log in to your Smart TV Account, follow these steps:

1. With the Smart Hub main screen displayed on your TV, press the **RED (A)** button on your remote. The Login screen appears.

2. Select the **Down Arrow** next to the **Smart TV ID** field, and then press the **ENTER** button.
3. Select your ID from the list that appears, and then press the **ENTER** button. The Login screen re-appears.
4. Select **Password**, and then press the **ENTER** button. The Password window and a keypad appears.
5. Using the keypad and your remote, enter your password. When done, press the **ENTER** button, select **OK**, and then press the **ENTER** button again.

NOTE

- If you want Smart Hub to enter your password automatically, select Remember my Smart TV ID and password after you have entered your password, and then press the **ENTER** button. A check appears. Smart Hub will now enter your password automatically when you select or enter your ID.

The Settings Menu - BLUE (D)

The Settings Menu Screen gives you access to account management, account reset, and account properties functions.

To access the Settings Menu, and then select a menu item, follow these steps:

1. Press the **BLUE (D)** button on your remote.
2. Press the **▲▼** to select a menu item, and then press the **ENTER** button.

The functions on the Settings Menu screen are described below.

NOTE

- The Service Manager item listed in the Settings Menu is not available for Blu-ray Home Theaters.

Account Management

The Account Management Menu contains functions that let you register your service provider accounts, change your Smart Hub password, and delete or deactivate your Smart TV Account.

Network Services

Register Service Account

If you have existing accounts with any of the providers listed by the Register Service Account function, you can associate the provider account and the provider account password with your Smart TV Account. If you associate the account, you will be able to log onto the account through Smart Hub easily, without entering your account name or password.

To use the Account Management function, follow these steps:

1. In the Account Management menu, select Register Service Account, and then press the **ENTER** button. The Register Service Account Window appears.
2. Press the **▲▼** arrow buttons to select a Service Provider you want to associate with your Smart TV Account, and then press the **ENTER** button.

NOTE

- If you have a Samsung account and you want to use the Samsung Apps function in Smart Hub, you must register your Samsung Apps account here. See page 77 for more information.
3. Using your remote and the on-screen Keypad, enter your site ID and password. When done, press the **ENTER** button.

NOTE

- This is the ID and password you normally use to access your account on this site.
4. If you have entered the ID and password correctly, the Registered Successfully message appears.
 5. If you pressed **OK**, repeat Steps 2 through 4 to associate another Service Provider.
 6. When you are done, press the **RETURN** button.

Change Password

The Change Password function lets you change your Smart Hub password. To change the password, follow these steps:

1. Select **Change Password**, and then press the **ENTER** button.
2. Enter your current password. The next screen appears.
3. On the next screen, enter a new password on the first line. Enter it again on the second line to confirm.
4. The Changing Password Complete message screen appears. Press the **ENTER** button or wait for the screen to close - about 5 seconds.

Remove from TV Account List

The Remove from TV Account List function cancels all your current registered Service Accounts that you registered on the Register Service Account screen.

Deactivate Account

The Deactivate Account function deactivates your Smart TV Account and deletes it and all your account settings entirely from Smart Hub.

Reset

The Reset function initializes all downloaded widgets, erases all user accounts and settings from the product, and resets all Smart Hub settings to the factory default settings. It then restarts Smart Hub as if it were starting for the first time. Your account, however, remains on the Smart Hub server. To log into your account, enter your ID and password on the Create Account screen.

To use the Reset function, follow these steps:

1. In the Account Management menu, select Reset, and then press the **ENTER** button. The Reset screen appears.
2. Enter the your Security password. This is the password you entered if you set up a BD or DVD Parental rating (See page 52). If you did not, enter 0000.

- After a few moments, Smart Hub automatically resets. The screen may go black, then Smart Hub re-appears. In a few moments, it starts the re-initialization procedure.
- To complete the re-initialization, go to Step 4 in Starting Smart Hub for the First Time. (See page 70)

NOTE

- If you forgot your password, press the **STOP** (■) button on the front panel of the product for more than 5 seconds with no disc inserted.

Properties

The Properties menu item lists three functions that display information about Smart Hub :

Detail

Lists information about Smart Hub including version number, the number of services installed, memory usage, and the unique product ID.

Terms of Service Agreement

Displays the Terms of Service Agreement.

The Edit Mode Menu - YELLOW (C)

The functions in the Edit Mode menu let you manipulate the widgets in the My Applications section of the Smart Hub screen. Using these functions, you can lock and unlock access to some widgets, New Folder and move widgets to them, rename folders, delete widgets, and change the position of widgets on the screen.

To access the Edit Mode Menu, and then select a menu item, follow these steps:

- Press the **YELLOW (C)** button on your remote. The Edit Mode menu bar appears on the bottom of the screen.
- Press the **▲▼◀▶** to select a menu item, and then press the **ENTER** button.

The functions in the Edit Mode Menu bar are described below.

NOTE

- Some menu items may not appear on the screen. To see these items, press the **◀▶** to move to the screen edge, and then press one more time to reveal the items.
- You can close the bar by highlighting the X on the bottom right side, and then pressing the **ENTER** button.

Move

The Move function lets you change the screen position of a widget. To use the Move function, follow these steps:

- Press the **YELLOW (C)** button on your remote.
- Select a widget, and then press the **ENTER** button. A check appears above the widget.
- Press the **▲▼◀▶** to select Change Position, and then press the **ENTER** button. A position change icon appears above the widget.
- Press the **▲▼◀▶** to move the icon. Press the **ENTER** button when the icon is in the position of your choice. The widget moves to its new location.

New Folder

The New Folder function lets you create and name new folders. Once you have created a folder, you can move widgets into it. To use the New Folder function, follow these steps:

- Press the **YELLOW (C)** button on your remote.
- Press the **▲▼◀▶** to move the cursor to New Folder, and then press the **ENTER** button. The New Folder window and a keypad appear.
- Use the keypad to enter the name of the folder, and then press the **ENTER** button. The New Folder screen closes and the New Folder appears on the Smart Hub screen.

Network Services

Move to Folder

The Move to Folder function lets you move a widget to a folder. To use the Move to Folder function, follow these steps:

1. Press the **YELLOW (C)** button on your remote.
2. Select a widget, and then press the **ENTER** button.
3. Press the **▲▼◀▶** to select Move to Folder, and then press the **ENTER** button. The Move to Folder window opens.
4. Press the **▲▼◀▶** to select a folder, and then press the **ENTER** button. The Moved to Folder message appears, and then closes. The widget has been moved to the folder.

To Access Widgets in a Folder

1. Close the Edit Mode menu.
2. In My Applications, press the **▲▼◀▶** to select a folder, and then press the **ENTER** button. The folder opens.
3. Select a widget, and then press the **ENTER** button. The widget's application or service starts.

To Edit Items in a Folder

Select a folder, and then press the **ENTER** button. The folder opens.

Press the **YELLOW (C)** button on your remote. The Edit buttons appear at the bottom of the screen.

These buttons work the same as the Edit Mode menu buttons on the main screen. For example, to move a widget back to the My Applications main screen:

1. Select the widget.
2. Select Move to Folder, and then press the **ENTER** button. The Move to Folder window appears.
3. Select My Applications, and then press the **ENTER** button. The Move to Folder window closes and the widget returns to the main My Applications screen.

Rename Folder

The Rename Folder function lets you rename folders. To use the Rename Folder function, follow these steps:

1. Press the **YELLOW (C)** button on your remote.
2. Press the **▲▼◀▶** to select a folder, and then press the **ENTER** button.
3. Press the **▲▼◀▶** to select Rename a Folder, and then press the **ENTER** button. The Folder Rename window and a keyboard appears.
4. Use the key board to enter a new name, and then press the **ENTER** button. The Rename window closes and the new name appears below the folder.

Lock

The Lock function lets you lock some widgets in My Applications so they can not be opened without entering the Parental Security Code.

To use the Lock function, follow these steps:

1. Press the **YELLOW (C)** button on your remote.
2. Press the **▲▼◀▶** to select a widget, and then press the **ENTER** button. If the widget can be locked, the Lock menu item is enabled.
3. Press the **▲▼◀▶** to select Lock, and then press the **ENTER** button. The Security window appears.
4. Enter your Parental Security Code (See page 52). If you have not created a Parental Security Code, enter 0000.
5. Press the **ENTER** button. The Lock Service window appears confirming the lock, and then closes. A lock symbol appears next to the widget.

Unlock

1. Press the **YELLOW (C)** button on your remote.
2. Press the **▲▼◀▶** to select a locked widget, and then press the **ENTER** button.
3. Press the **▲▼◀▶** to select Unlock, and then press the **ENTER** button. The Security window appears.
4. Enter the Parental Security Code (See page 52). If you have not created a Parental Security Code, enter 0000.
5. Press the **ENTER** button. The Lock Service Released window appears confirming the lock has been release, and then closes.

Delete

The Delete function lets you delete widgets from My Applications. To use the Delete function, follow these steps:

1. Press the **YELLOW (C)** button on your remote.
2. Press the **▲▼◀▶** to select a widget, and then press the **ENTER** button.
3. Press the **▲▼◀▶** to select Delete, and then press the **ENTER** button. The message, "Do you want to delete selected item(s)?" appears.
4. Select **Yes**, and then press the **ENTER** button. The widget is deleted.

The Sort by Menu - GREEN (B)

The functions in the Sort Menu let you sort the widgets in My Applications by Name, Date, Frequency (of use), and Category. If you manually change the position of a widget, the Sort Menu automatically highlights User Defined when you start it.

To sort the widgets in My Applications, follow these steps:

1. Press the **GREEN (B)** button on your remote.
2. Press the **◀▶** to select a sorting method, and then press the **ENTER** button. Smart Hub sorts the widgets by the method you have chosen.

Samsung Apps

Samsung Apps lets you download for pay or free-of-charge applications and services to your Blu-ray Home Theater and view or use them on your TV.

These applications and services include videos, music, photos, games, news, sports, etc. Widgets for the new apps appear in My Applications.

Additional applications and services are added regularly.

For Pay Apps

To download for pay apps, you need to create a Samsung Account and add a credit card to the account.

To create a Samsung account, please visit www.samsung.com

NOTE

- This service may not provided in some countries.

Accessing the Samsung Apps Screen

To access Samsung Apps, press the **▲▼◀▶** buttons to navigate to the Samsung Apps area on the Smart Hub main screen, and then press the **ENTER** button. The Samsung Apps screen appears.

NOTE

- If this is the first time you are accessing this screen, the terms of service window appears. Select Agree, and then press the **ENTER** button.

Network Services

Using the Samsung Apps Screen

To use the Samsung Apps screen, follow these steps:

1. Press the ◀▶ buttons to move to the category list on the left.
2. Press the ▲▼ to highlight a category. In a few seconds, the Samsung Apps screen displays the applications in that category. The Sort tabs appear across the top.
3. Press the ▶ button to move to the displayed applications or services.
4. Press the ▲▼◀▶ buttons to select an application or service, and then press the **ENTER** button. The Application Details screen appears describing the service or application.
5. Select Download Now, and then press the **ENTER** button. If the application or service is free, it downloads and runs. If not, and there is a fee, follow the directions on the screen to complete the download.

NOTE

- Some apps are free to download, but require registration with the provider or a paid account with the provider to use.
- Widgets for applications and services you have downloaded from Samsung Apps appear in My Applications.

Sort By Tabs

You can access the Sort By tabs on the top of the screen using the ▲▼◀▶ buttons. Each tab displays the services or applications in the category you chose, sorted by the criteria on the tab (Recommended, Most Downloaded, Most Recent, Name).

You can also use the **BLUE (D)** button on your remote to access the Sort By tabs. Each time you press the **BLUE (D)** button, you change the display from one sort tab to the next.

Samsung Apps by category

The following categories are available:

- **What's New?** : Displays newly registered applications.
- **Video** : Displays various video media such as movies, TV shows, and short length videos.
- **Game** : Displays various games such as sudoku and chess.
- **Sports** : Displays various sports media services such as match information, images, and short length videos.
- **Lifestyle** : Includes various lifestyle media services such as music, personal photo management tools, and social networking such as Facebook and Twitter.
- **Information** : Includes various information services such as news, stocks, and weather.
- **Other** : Includes other miscellaneous services.

My Account

My Account gives you access to your Samsung Apps order and download history, and to the My Apps Cash screen. You must have a Samsung account to access this information.

Help

If you have questions about Samsung Apps, check Help first. If none of the tips apply, please visit www.samsung.com.

To use the Help function, follow these steps:

1. Press the ▲▼◀▶ buttons to select Help, and then press the **ENTER** button.
2. Press the ◀▶ to enter Help after it appears.
3. Press the ▲▼ to scroll the Help text.
4. Press the ◀ to exit Help.

Using the colored buttons on your remote with Samsung Apps

- **RED (A) (Login)** : To log into your Smart TV Account.
- **GREEN (B) (Thumbnail/List View)** : To toggle applications between Thumbnail and List view.
- **BLUE (D) (Sort By)** : To sort the applications in a category by Recommended, Most Downloaded, Most Recent, or Name.
- **Return** : To return to the previous menu.

NOTE

- The Internet contents services may be added or deleted by providers without notice.

For instructions to use Your Video or Search Function, please visit www.samsung.com

Using vTuner Function

vTuner is the function of the listening a radio. If you press the vTuner button, you can move to vTuner widget.



Press the **vTuner** button.

NOTE

- You can use the vTuner Function after download the vTuner widget from Samsung Apps.

BD-LIVE™

Once the product is connected to the network, you can enjoy various movie-related service contents using a BD-LIVE compliant disc.

1. Attach a USB memory stick to the USB jack on the front of the product, and then check its remaining memory. The memory device must have at least 1GB of free space to accommodate the BD-LIVE services.
2. Insert a Blu-ray disc that supports BD-LIVE.
3. Select an item from various BD-LIVE service contents provided by the disc manufacturer.

NOTE

- The way you use BD-LIVE and the provided contents may differ, depending on the disc manufacturer.

Using the AllShare Function

AllShare lets you play music, video, and photo files located in your PC or your DLNA compatible mobile phone or NAS on the product.

To use AllShare with your product, you must connect the product to your network (See pages 32~33).

To use AllShare with your PC, you must install AllShare software on your PC.

If you have a DLNA compatible mobile phone or NAS, you can use AllShare without any additional software.

You can download the PC software and get detailed instructions for using AllShare from the Samsung.com web site.

Other Information

Troubleshooting

Refer to the chart below when this product does not function properly. If the problem you are experiencing is not listed below or if the instructions below do not help, turn off the product, disconnect the power cord, and contact Samsung Electronics at 1-800-SAMSUNG (1-800-726-7864).

Symptom	Check/Remedy
I cannot eject the disc.	<ul style="list-style-type: none"> • Is the power cord plugged securely into the outlet? • Turn off the power and then turn it back on.
The iPod fails to connect.	<ul style="list-style-type: none"> • Check the condition of the iPod connector and Dock. • Keep the iPod software version up to date.
Playback does not start.	<ul style="list-style-type: none"> • Check the region number of the BD/DVD. BD/DVD discs purchased from abroad may not be playable. • CD-ROMs and DVD-ROMs cannot be played on this Product. • Make sure that the rating level is correct.
Playback does not start immediately when the Play/Pause button is pressed.	<ul style="list-style-type: none"> • Are you using a deformed disc or a disc with scratches on the surface? • Wipe the disc clean.
Sound is not produced.	<ul style="list-style-type: none"> • The Receiver does not play sound during fast playback, slow playback, and step motion playback. • Are the speakers connected properly? Is the speaker setup correctly customized? • Is the disc severely damaged?
Sound can be heard only from a few speakers and not all 8.	<ul style="list-style-type: none"> • On certain BD/DVD discs, sound is output from the front speakers only. • Check if the speakers are connected properly. • Adjust the volume. • When listening to a CD, radio or TV, sound is output to the front speakers only. Select "3D SOUND, NEO:6, PRO LOGIC II" to use all speakers.
The sound from the left/right channels is reversed.	<ul style="list-style-type: none"> • Are the left/right speaker or left/right input/output cables connected properly? • Check the left/right channel and connect it/them correctly.
Dolby Digital 7.1 CH Surround Sound is not produced.	<ul style="list-style-type: none"> • Is there "Dolby Digital 7.1 CH" mark on the disc? Dolby Digital 7.1 CH Surround Sound is produced only if the disc is recorded with 7.1 channel sound. • Is the audio language correctly set to Dolby Digital 7.1-CH in the information display?
The remote control does not work.	<ul style="list-style-type: none"> • Are you operating the remote within its operational range and within the proper angle relative to the sensor? • Are the batteries drained? • Have you selected the mode (BD-RX, TV, SHIFT) functions of the remote control (BD-RX, TV, SHIFT) correctly?
<ul style="list-style-type: none"> • Disc is rotating but no picture is produced. • Picture quality is poor and picture is shaking. 	<ul style="list-style-type: none"> • Is the TV power on? • Are the video cables connected properly? • Is the disc dirty or damaged? • A poorly manufactured disc may not be playable.
Audio language and subtitles do not work.	<ul style="list-style-type: none"> • Audio language and subtitles will not work if the disc does not contain them.

Symptom	Check/Remedy
Menu screen does not appear even when the menu function is selected.	<ul style="list-style-type: none"> • Are you using a disc that does not contain menus?
Aspect ratio cannot be changed.	<ul style="list-style-type: none"> • You can play 16:9 BD/DVDs in 16:9 Wide mode, 4:3 Letter Box mode, or 4:3 Pan - Scan mode, but 4:3 BD/DVDs can be seen in 4:3 ratio only. Refer to the Blu-ray Disc jacket and then select the appropriate function.
<ul style="list-style-type: none"> • The product is not working. (Example: The power goes out or a strange noise is heard.) • The Product is not working normally. 	<ul style="list-style-type: none"> • Press and hold the remote control's STOP (■) button for 5 seconds in STANDBY mode. <ul style="list-style-type: none"> - Using the RESET function will erase all stored settings. Do not use this unless necessary. • Only S.DIRECT, TONE, SLEEP and AUDIO ASSIGN buttons will operate, after pressing the SHIFT button.
You have forgotten the rating level password.	<ul style="list-style-type: none"> • With no disc in the product, press and hold the product's STOP (■) button for longer than 5 seconds. INIT appears on the display and all settings will return to the default values. And then press the POWER button. <ul style="list-style-type: none"> - Using the RESET function will erase all stored settings. Do not use this unless necessary.
Can't receive radio broadcasts.	<ul style="list-style-type: none"> • Is the antenna connected properly? • If the antenna's input signal is weak, install an external FM antenna in an area with good reception.
While listening to TV audio through the Product, no sound is heard.	<ul style="list-style-type: none"> • If the OPEN/CLOSE (▲) button is pressed while listening to TV audio using the TV functions, the BD/DVD functions are turned on and the TV audio is muted.
"Not Available" appears on screen.	<ul style="list-style-type: none"> • The features or action cannot be completed at this time because: <ol style="list-style-type: none"> 1. The BD/DVD's software restricts it. 2. The BD/DVD's software doesn't support the feature (e.g., angles) 3. The feature is not available at the moment. 4. You've requested a title or chapter number or search time that is out of range.
If the HDMI output is set to a resolution your TV cannot support (for example, 1080p), you may not see a picture on your TV.	<ul style="list-style-type: none"> • Press and hold the STOP (■) button on front panel for more than 5 seconds with no disc inserted. All settings will revert to the factory settings.
No HDMI output.	<ul style="list-style-type: none"> • Check the connection between the TV and the HDMI jack of the product. • Check if your TV supports 480p/720p/1080i/1080p HDMI input resolution.
Abnormal HDMI output screen.	<ul style="list-style-type: none"> • If random noise appears on the screen, it means that TV does not support HDCP (High-bandwidth Digital Content Protection).

Other Information

Symptom	Check/Remedy
There is no sound from surround speakers.	<ul style="list-style-type: none"> • Are the surround speakers connected properly? • Is Surround incorrectly set to NONE in the Speaker Size? • Is surround mode set to stereo?
There is no sound from surround back speakers	<ul style="list-style-type: none"> • Are the surround back speakers connected properly? • Is SBACK (Surround Back) set to NONE in the Speaker Size? • Is Surround Mode set to EX/ES?
Can't select EX/ES mode.	<ul style="list-style-type: none"> • Is SBACK (Surround Back) set to NONE in the Speaker Size? • Is the input signal selected properly?
Can't select Dolby Pro Logic IIx mode.	<ul style="list-style-type: none"> • Is the input signal selected properly? • Only 2 channel signal can select Dolby Pro Logic IIx mode. (ex:Dolby Digital, PCM, 2 channel analog input signal.)
Can't select NEO:6 mode.	<ul style="list-style-type: none"> • Is the input signal selected properly? • Use PCM and Analog input signal.
PC Share Manager function	
I can see folders shared through the PC Share Manager, but I cannot see the files.	<ul style="list-style-type: none"> • Since it shows only files corresponding to the Image, Music, and Movie categories, files that do not correspond to these categories may not be displayed.
AllShare function	
Video is played intermittently.	<ul style="list-style-type: none"> • Check if the network is stable. • Check if the network cable is properly connected and if the network is not overloaded. • Wireless connection between the server and the product is unstable. Check the connection.
AllShare connection between TV and PC is unstable.	<ul style="list-style-type: none"> • IP address under the same subnetwork should be unique, otherwise IP collision can results in such a phenomenon. • Check if you have a firewall enabled. If so, disable the firewall function.

Symptom	Check/Remedy
BD-LIVE	
I cannot connect to the BD-LIVE server.	<ul style="list-style-type: none"> • Check whether the network connection is successful or not by using Network Test menu. • The memory device must have at least 1GB of free space to accommodate the BD-LIVE service. You can check the available size in BD Data Management. (See page 51) • Please check whether the BD-LIVE Internet Connection menu is set to Allow(All). • If all above fails, contact the contents provider or update the latest firmware.
When using the BD-LIVE service, an error occurs.	<ul style="list-style-type: none"> • The memory device must have at least 1GB of free space to accommodate the BD-LIVE service. You can check the available size in BD Data Management. (See page 51)

NOTE

- When the factory default settings are restored, all the user data stored in the BD data will be deleted.

Repairs

If you contact us to repair your player, an administration fee may be charged if either:

1. An engineer is called out to your home at your request and there is no defect in the product.
2. You bring the unit to a repair center and there is no defect in the product.

We will provide you with the amount of the administration fee before we make a home visit or begin any work on your product.

We recommend you read this manually thoroughly, search for a solution on line at www.samsung.com, or contact Samsung Customer Care at 1-800-SAMSUNG (726-7864) before seeking to repair your product.

Other Information

Specifications

General	Power Requirements	AC 120V, 60Hz	
	Power Consumption	125 W	
	Weight	18.74 lbs	
	Dimensions	16.92 (W) x 6.50 (H) x 14.19 (D) inches	
	Operating Temperature Range	+41°F to +95°F	
	Operating Humidity Range	10 % to 75 %	
FM Tuner	Signal/noise ratio	65 dB	
	Usable sensitivity	7 dB	
	Total harmonic distortion	0.9 %	
Disc	BD (Blu-ray Disc)	Reading Speed : 9.834 m/sec	
	DVD (Digital Versatile Disc)	Reading Speed : 6.98 ~ 7.68 m/sec. Approx. Play Time (Single Sided, Single Layer Disc) : 135 min.	
	CD : 5 inches (COMPACT DISC)	Reading Speed : 4.8 ~ 5.6 m/sec. Maximum Play Time : 74 min.	
	CD : 3 1/2 inches (COMPACT DISC)	Reading Speed : 4.8 ~ 5.6 m/sec. Maximum Play Time : 20 min.	
Video Output	Composite Video	1 channel : 1.0 Vp-p (75 Ω load) Blu-ray Disc : 480i DVD : 480i	
	Component Video	Y : 1.0 Vp-p (75 Ω load)	
		Pr : 0.70 Vp-p (75 Ω load) Pb : 0.70 Vp-p (75 Ω load) BD : 480i DVD : 480p, 480i	
Video/Audio	HDMI	1080p, 1080i, 720p, 480p PCM multichannel audio, Bitstream audio, PCM audio	
Amplifier	Front speaker output	120W x 2(4Ω), THD 0.9%	
	Surround Back / Front Height speaker output	120W x 2(4Ω), THD 0.9%	
	Center speaker output	120W (4Ω), THD 0.9%	
	Surround speaker output	120W x 2(4Ω), THD 0.9%	
	Frequency response	Analog input	20Hz~20kHz (±3dB)
		Digital input	20Hz~40kHz (±4dB)
	S/N Ratio	75dB (1KHz)	
	Channel separation	70dB (1KHz)	
Input sensitivity	(AUX) 450mV		

*: Nominal specification

- Samsung Electronics Co., Ltd reserves the right to change the specifications without notice.
- Weight and dimensions are approximate.
- Design and specifications are subject to change without prior notice.

SAMSUNG Receiver

LIMITED WARRANTY TO ORIGINAL PURCHASER

This SAMSUNG brand product, as supplied and distributed by Samsung Electronics America, Inc. (SAMSUNG) and delivered new, in the original carton to the original consumer purchaser, is warranted by SAMSUNG against manufacturing defects in materials and workmanship for a limited warranty period of:

One (1) Year Parts and Labor*

(*90 days Parts and Labor for Commercial Use)

This limited warranty begins on the original date of purchase, and is valid only on products purchased and used in the United States. To receive warranty service, the purchaser must contact SAMSUNG for problem determination and service procedures. Warranty service can only be performed by a SAMSUNG authorized service center. The original dated bill of sale must be presented upon request as proof of purchase to SAMSUNG or SAMSUNG's authorized service center. Transportation of the product to and from the service center is the responsibility of the purchaser.

SAMSUNG will repair or replace this product, at our option and at no charge as stipulated herein, with new or reconditioned parts or products if found to be defective during the limited warranty period specified above. All replaced parts and products become the property of SAMSUNG and must be returned to SAMSUNG. Replacement parts and products assume the remaining original warranty, or ninety (90) days, whichever is longer.

SAMSUNG's obligations with respect to software products distributed by SAMSUNG under the SAMSUNG brand name are set forth in the applicable end user license agreement. Non-SAMSUNG hardware and software products, if provided, are on an "AS IS" basis. Non-SAMSUNG manufacturers, suppliers, publishers, and service providers may provide their own warranties.

This limited warranty covers manufacturing defects in materials and workmanship encountered in normal, and except to the extent otherwise expressly provided for in this statement, noncommercial use of this product, and shall not apply to the following, including, but not limited to: damage which occurs in shipment; delivery and installation; applications and uses for which this product was not intended; altered product or serial numbers; cosmetic damage or exterior finish; accidents, abuse, neglect, fire, water, lightning or other acts of nature; use of products, equipment, systems, utilities, services, parts, supplies, accessories, applications, installations, repairs, external wiring or connectors not supplied and authorized by SAMSUNG, or which damage this product or result in service problems; incorrect electrical line voltage, fluctuations and surges; customer adjustments and failure to follow operating instructions, cleaning, maintenance and environmental instructions that are covered and prescribed in the instruction book; product removal or reinstallation; reception problems and distortion related to noise, echo, interference or other signal transmission and delivery problems. SAMSUNG does not warrant uninterrupted or error-free operation of the product.

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Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

To obtain warranty hardware service, please contact SAMSUNG at:

Samsung Electronics America, Inc.
105 Challenger Road Ridgefield Park, NJ07660-0511
1-800-SAMSUNG(726-7864) and www.samsung.com

Contact SAMSUNG WORLD WIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

Area	Contact Center ☎	Web Site
■ North America		
Canada	1-800-SAMSUNG (726-7864)	www.samsung.com
Mexico	01-800-SAMSUNG (726-7864)	www.samsung.com
U.S.A	1-800-SAMSUNG (726-7864)	www.samsung.com
■ Latin America		
Argentina	0800-333-3733	www.samsung.com
Brazil	0800-124-421 / 4004-0000	www.samsung.com
Chile	800-SAMSUNG (726-7864)	www.samsung.com
Colombia	01-8000112112	www.samsung.com
Costa Rica	0-800-507-7267	www.samsung.com
Dominica	1-800-751-2676	www.samsung.com
Ecuador	1-800-10-7267	www.samsung.com
El Salvador	800-6225	www.samsung.com
Guatemala	1-800-299-0013	www.samsung.com
Honduras	800-7919267	www.samsung.com
Jamaica	1-800-234-7267	www.samsung.com
Nicaragua	00-1800-5077267	www.samsung.com
Panama	800-7267	www.samsung.com
Peru	0-800-777-08	www.samsung.com
Puerto Rico	1-800-682-3180	www.samsung.com
Trinidad & Tobago	1-800-SAMSUNG (726-7864)	www.samsung.com
Venezuela	0-800-100-5303	www.samsung.com
■ Europe		
Albania	42 27 5755	-
Austria	0810 - SAMSUNG (7267864, € 0.07/min)	www.samsung.com
Belgium	02-201-24-18	www.samsung.com/ be (Dutch) www.samsung.com/ be_fr (French)
Bosnia	05 133 1999	-
Bulgaria	07001 33 11	www.samsung.com
Croatia	062 SAMSUNG (062 726 7864)	www.samsung.com
Czech	800-SAMSUNG (800-726786) Samsung Zrt., Česká organizační složka, Oasis Florenc, Soko- lovská394/17, 180 00, Praha 8	www.samsung.com
Denmark	70 70 19 70	www.samsung.com
Finland	030 - 6227 515	www.samsung.com
France	01 48 63 00 00	www.samsung.com
Germany	01805 - SAMSUNG (726-7864 € 0,14/Min)	www.samsung.com
Hungary	06-80-SAMSUNG (726-7864)	www.samsung.com
Italia	800-SAMSUNG (726-7864)	www.samsung.com
Kosovo	+381 01132168999	-
Luxemburg	261 03 710	www.samsung.com
Macedonia	023 207 777	-
Montenegro	020 405 888	-
Netherlands	0900-SAMSUNG (0900-7267864) (€ 0,10/Min)	www.samsung.com
Norway	815-56 480	www.samsung.com
Poland	0 801 1SAMSUNG (172678) / 022-607-93-33	www.samsung.com
Portugal	80820-SAMSUNG (726-7864)	www.samsung.com
Rumania	1. 08010 SAMSUNG (72678) - doar din rețeaua Romtelecom, tarif local 2. 021.206.01.10 - din orice rețea, tarif normal	www.samsung.com

Area	Contact Center ☎	Web Site
Serbia	0700 Samsung (0700 726 7864)	www.samsung.com
Slovakia	0800-SAMSUNG (726-7864)	www.samsung.com
Spain	902-1-SAMSUNG (902 172 678)	www.samsung.com
Sweden	0771 726 7864 (SAMSUNG)	www.samsung.com
Switzerland	0848-SAMSUNG (7267864, CHF 0.08/min)	www.samsung.com/ch www.samsung.com/ ch_fr (French)
U.K	0330 SAMSUNG (7267864)	www.samsung.com
Eire	0818 717100	www.samsung.com
Lithuania	8-800-77777	www.samsung.com
Latvia	8000-7267	www.samsung.com
Estonia	800-7267	www.samsung.com
■ CIS		
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Georgia	8-800-555-555	-
Armenia	0-800-05-555	-
Azerbaijan	088-55-55-555	-
Kazakhstan	8-10-800-500-55-500 (GSM: 7799)	www.samsung.com
Uzbekistan	8-10-800-500-55-500	www.samsung.com
Kyrgyzstan	00-800-500-55-500	www.samsung.com
Tadjikistan	8-10-800-500-55-500	www.samsung.com
Ukraine	0-800-502-000	www.samsung.ua www.samsung.com/ ua_ru
Belarus	810-800-500-55-500	-
Moldova	00-800-500-55-500	-
■ Asia Pacific		
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New Zealand	0800 SAMSUNG (0800 726 786)	www.samsung.com
China	400-810-5858 / 010-6475 1880	www.samsung.com
Hong Kong	(852) 3698 4698	www.samsung.com/hk www.samsung.com/ hk_en/
India	3030 8282 / 1800 110011 / 1800 3000 8282 / 1800 266 8282	www.samsung.com
Indonesia	0800-112-8888 / 021-5699-7777	www.samsung.com
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Singapore	1800-SAMSUNG (726-7864)	www.samsung.com
Thailand	1800-29-3232 / 02-689-3232	www.samsung.com
Taiwan	0800-329-999	www.samsung.com
Vietnam	1 800 588 889	www.samsung.com
■ Middle East		
Bahrain	8000-4726	www.samsung.com
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Oman	800-SAMSUNG (726-7864)	www.samsung.com
Saudi Arabia	9200-21230	www.samsung.com
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■ Africa		
Nigeria	0800-SAMSUNG (726-7864)	www.samsung.com
South Africa	0860-SAMSUNG (726-7864)	www.samsung.com



QUESTIONS OR COMMENTS?

COUNTRY	CALL	OR VISIT US ONLINE AT	WRITE
IN THE US	1-800-SAMSUNG (7267864)	www.samsung.com/us	Samsung Electronics America, Inc. 85 Challenger Road Ridgefield Park, NJ 07660-0511